

Proyecto Final

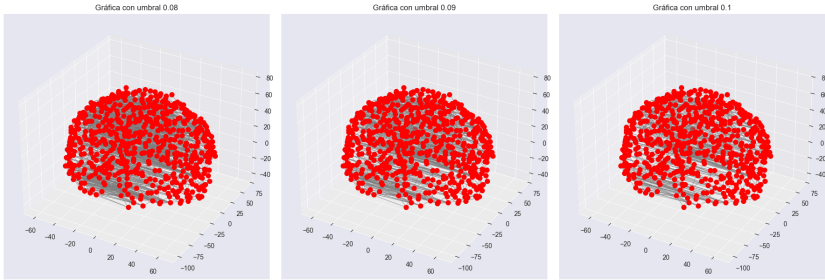
Elaborado por: Zaira Valentina Avila Lazcano

1.
- Realizar las siguientes actividades usando la matriz de coactivación adjunta del conectoma del cerebro humano
- Realizar en Jupyter Notebook donde realices de forma clara y ordenado cada una de las actividades.

• Entregar archivos el notebook y exportar a un archivo pdf.

1

- Definir grafos con la matriz estableciendo umbrales de coactivación de 0.8, 0.9 y 1 y graficar cada grafo. Añadir las coordenadas tridimensionales (incluidas en el archivo .mat).



2

- Con uno de los grafos en el punto uno con umbral 0.9, generar una animación donde se haga girar 360° el grafo del cerebro para visualizar las conexiones establecido

```
In [256]: import scipy.io
import seaborn as sns
import numpy as np
import networkx as nx
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
from matplotlib.animation import FuncAnimation, PillowWriter

data = scipy.io.loadmat('/Users/ZvalEnes/Desktop/Neurociencias-2025-1/BCT/BCT/2019_03_03_BCT/data_
and_demos/Coactivation_matrix.mat')
coactivation_matrix = data['Coactivation_matrix']
coordinates = data['Coord']

def create_graph(matrix, threshold):
    binary_matrix = (matrix >= threshold).astype(int)
    graph = nx.from_numpy_array(binary_matrix)
    return graph

thresholds = [0.08, 0.09, 0.1]
graphs = [create_graph(coactivation_matrix, t) for t in thresholds]

fig = plt.figure(figsize=(18, 6))
for i, (graph, threshold) in enumerate(zip(graphs, thresholds)):
    ax = fig.add_subplot(1, 3, i + 1, projection='3d')
    ax.set_title(f'Gráfica con umbral {threshold}', fontsize=12)
    pos = {node: coordinates[node] for node in graph.nodes()}

    for edge in graph.edges():
        x = [pos[edge[0]][0], pos[edge[1]][0]]
        y = [pos[edge[0]][1], pos[edge[1]][1]]
        z = [pos[edge[0]][2], pos[edge[1]][2]]
        ax.plot(x, y, z, color='gray', linewidth=0.5)

    for node in graph.nodes():
        ax.scatter(pos[node][0], pos[node][1], pos[node][2], color='red', s=50)

plt.tight_layout()
plt.show()
```

```
In [241]: threshold = 0.09
binary_matrix = (coactivation_matrix >= threshold).astype(int)
graph = nx.from_numpy_array(binary_matrix)

pos = {node: coordinates[node] for node in graph.nodes()}

print(f'Grafo con umbral {threshold}, tiene coordenadas de conexiones:\n')
for edge in graph.edges():
    node1, node2 = edge
    x_coords = [pos[node1][0], pos[node2][0]]
    y_coords = [pos[node1][1], pos[node2][1]]
    z_coords = [pos[node1][2], pos[node2][2]]
    print(f'Conexion: x: {x_coords}, y: {y_coords}, z: {z_coords}')

fig = plt.figure(figsize=(10, 10))
ax = fig.add_subplot(111, projection='3d')

def draw_graph():
    ax.cla()
    nodes = np.array(list(pos.values()))
    ax.scatter(nodes[:, 0], nodes[:, 1], nodes[:, 2], c='red', s=20)
    for edge in graph.edges():
        start, end = pos[edge[0]], pos[edge[1]]
        ax.plot([start[0], end[0]], [start[1], end[1]], [start[2], end[2]], c='gray')

def update(num):
    draw_graph()
    ax.view_init(elev=10., azim=num)

ani = FuncAnimation(fig, update, frames=np.arange(0, 360, 10), interval=100)

cerebro_mov = "ganim.gif"
ani.save(cerebro_mov, writer=PillowWriter(fps=20))

from IPython.display import Image
Image(cerebro_mov)
```

Grafo con umbral 0.09, tiene coordenadas de conexiones:

Conexion: x: [np.float64(7.243636363636369), np.float64(7.986531986531986)], y: [np.float64(37.01090909090908), np.float64(46.22222222222223)], z: [np.float64(9.425454545454542), np.float64(15.609427609427613)]
Conexion: x: [np.float64(7.243636363636369), np.float64(7.55725190839695)], y: [np.float64(37.01090909090908), np.float64(33.8320610687023)], z: [np.float64(9.425454545454542), np.float64(23.511450381679396)]
Conexion: x: [np.float64(7.243636363636369), np.float64(8.902439024390247)], y: [np.float64(37.01090909090908), np.float64(36.1869918699187)], z: [np.float64(9.425454545454542), np.float64(-0.31707317073170316)]
Conexion: x: [np.float64(7.243636363636369), np.float64(9.39776951672863)], y: [np.float64(37.01090909090908), np.float64(52.98141263940519)], z: [np.float64(9.425454545454542), np.float64(3.1524163568773247)]
Conexion: x: [np.float64(7.243636363636369), np.float64(-3.418604651162795)], y: [np.float64(37.01090909090908), np.float64(39.92248062015503)], z: [np.float64(9.425454545454542), np.float64(10.170542635658919)]
Conexion: x: [np.float64(7.243636363636369), np.float64(-4.538745387453872)], y: [np.float64(37.01090909090908), np.float64(46.53874538745387)], z: [np.float64(9.425454545454542), np.float64(3.06273062730628)]
Conexion: x: [np.float64(7.986531986531986), np.float64(-5.00946372239747)], y: [np.float64(46.22222222222223), np.float64(50.466876971608826)], z: [np.float64(15.609427609427613), np.float64(19.671924290220815)]
Conexion: x: [np.float64(7.986531986531986), np.float64(9.39776951672863)], y: [np.float64(46.22222222222223), np.float64(52.98141263940519)], z: [np.float64(15.609427609427613), np.float64(3.1524163568773247)]
Conexion: x: [np.float64(7.986531986531986), np.float64(7.117647058823536)], y: [np.float64(46.22222222222223), np.float64(57.448529411764696)], z: [np.float64(15.609427609427613), np.float64(15.742647058823536)]
Conexion: x: [np.float64(7.986531986531986), np.float64(-3.418604651162795)], y: [np.float64(46.22222222222223), np.float64(39.92248062015503)], z: [np.float64(15.609427609427613), np.float64(10.170542635658919)]
Conexion: x: [np.float64(7.55725190839695), np.float64(9.115879828326186)], y: [np.float64(33.8320610687023), np.float64(22.454935622317606)], z: [np.float64(23.511450381679396), np.float64(24.206008583690988)]
Conexion: x: [np.float64(7.55725190839695), np.float64(-4.040485829959508)], y: [np.float64(33.8320610687023), np.float64(34.68825910931173)], z: [np.float64(23.511450381679396), np.float64(23.6031603160316)]
Conexion: x: [np.float64(7.55725190839695), np.float64(-3.030000000000001)], y: [np.float64(33.8320610687023), np.float64(27.490000000000001)], z: [np.float64(23.511450381679396), np.float64(19.790000000000006)]
Conexion: x: [np.float64(9.115879828326186), np.float64(8.1869918699187)], y: [np.float64(22.454935622317606), np.float64(19.86178861788619)], z: [np.float64(24.206008583690988), np.float64(33.11382113821138)]

113821138]

Conexion: x: [np.float64(9.115879828326186), np.float64(-4.923857868020306)], y: [np.float64(22.454935622317606), np.float64(15.319796954314711)], z: [np.float64(24.206008583690988), np.float64(27.73604060913705)]
Conexion: x: [np.float64(8.902439024390247), np.float64(7.964912280701753)], y: [np.float64(36.186918699187), np.float64(37.543859649122794)], z: [np.float64(-0.31707317073170316), np.float64(-9.557894736842101)]
Conexion: x: [np.float64(8.902439024390247), np.float64(-6.27312775303967)], y: [np.float64(36.186918699187), np.float64(34.70484581497797)], z: [np.float64(-0.31707317073170316), np.float64(-5.092511013215855)]
Conexion: x: [np.float64(-5.214035087719296), np.float64(-5.017094017094024)], y: [np.float64(-12.526315789473685), np.float64(-5.7521367521367495)], z: [np.float64(42.11929824561403), np.float64(37.66666666666667)]
Conexion: x: [np.float64(-5.214035087719296), np.float64(6.343859649122805)], y: [np.float64(-12.526315789473685), np.float64(-17.298245614035082)], z: [np.float64(42.11929824561403), np.float64(42.631228070175444)]
Conexion: x: [np.float64(-5.214035087719296), np.float64(6.442105263157899)], y: [np.float64(-12.526315789473685), np.float64(-4.582456140350871)], z: [np.float64(42.11929824561403), np.float64(39.53684210526316)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(-5.198237885462561)], y: [np.float64(6.848739495798327), np.float64(17.823788546255514)], z: [np.float64(36.15126050420169), np.float64(36.8867841409696)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(-5.017094017094024)], y: [np.float64(6.848739495798327), np.float64(-5.7521367521367495)], z: [np.float64(36.15126050420169), np.float64(37.66666666666667)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(8.1869918699187)], y: [np.float64(6.848739495798327), np.float64(19.86178861788619)], z: [np.float64(36.15126050420169), np.float64(33.11382113821138)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(6.442105263157899)], y: [np.float64(6.848739495798327), np.float64(-4.582456140350871)], z: [np.float64(36.15126050420169), np.float64(39.53684210526316)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(6.831275720164612)], y: [np.float64(6.848739495798327), np.float64(6.189300411522623)], z: [np.float64(36.15126050420169), np.float64(36.53497942386831)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(-5.765957446808514)], y: [np.float64(6.848739495798327), np.float64(-1.9716312056737593)], z: [np.float64(36.15126050420169), np.float64(50.9298780141844)]
Conexion: x: [np.float64(-4.890756302521012), np.float64(-4.923857868020306)], y: [np.float64(6.848739495798327), np.float64(15.319796954314711)], z: [np.float64(36.15126050420169), np.float64(27.73604060913705)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(8.1869918699187)], y: [np.float64(17.82378546255514), np.float64(19.86178861788619)], z: [np.float64(36.889867841409696), np.float64(33.11382113821138)]

Conexion: x: [np.float64(-5.198237885462561), np.float64(8.421940928270047)], y: [np.float64(17.823788546255514), np.float64(26.405063291139243)], z: [np.float64(36.889867841409696), np.float64(36.42194092827005)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(-5.677419354838705)], y: [np.float64(17.823788546255514), np.float64(26.66129032258064)], z: [np.float64(36.889867841409696), np.float64(40.314516129032256)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(-31.52380952380952)], y: [np.float64(17.823788546255514), np.float64(23.3113553113553)], z: [np.float64(36.889867841409696), np.float64(1.3846153846153868)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(-35.60942760942761)], y: [np.float64(17.823788546255514), np.float64(14.175084717508418)], z: [np.float64(36.889867841409696), np.float64(-6.350168350168346)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(37.20158182676984)], y: [np.float64(17.823788546255514), np.float64(23.87351778656125)], z: [np.float64(36.889867841409696), np.float64(0.19762845849803057)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(40.33333333333336)], y: [np.float64(17.823788546255514), np.float64(13.207407407407402)], z: [np.float64(36.889867841409696), np.float64(0.2814814814814781)]
Conexion: x: [np.float64(-5.198237885462561), np.float64(-4.55230125523012)], y: [np.float64(17.823788546255514), np.float64(17.054393305439334)], z: [np.float64(36.889867841409696), np.float64(47.84937238493724)]
Conexion: x: [np.float64(-8.016597510373444), np.float64(-6.0297029702970235)], y: [np.float64(-38.016597510373444), np.float64(-38.00990909090901)], z: [np.float64(48.73858921161826), np.float64(48.095049504950495)]
Conexion: x: [np.float64(-8.016597510373444), np.float64(-6.659003831417621)], y: [np.float64(-38.016597510373444), np.float64(-34.996168582375475)], z: [np.float64(48.73858921161826), np.float64(63.08045977011494)]
Conexion: x: [np.float64(-8.016597510373444), np.float64(-6.797153024911026)], y: [np.float64(-38.016597510373444), np.float64(-45.580077117377224)], z: [np.float64(48.73858921161826), np.float64(63.978647686832744)]
Conexion: x: [np.float64(-6.114942528735625), np.float64(-6.0297029702970235)], y: [np.float64(-34.67432950191571), np.float64(-38.00990909090901)], z: [np.float64(34.643678160919535), np.float64(48.095049504950495)]
Conexion: x: [np.float64(-6.114942528735625), np.float64(6.874015748031496)], y: [np.float64(-34.67432950191571), np.float64(-23.61417322834646)], z: [np.float64(34.643678160919535), np.float64(33.7952755905511)]
Conexion: x: [np.float64(-6.114942528735625), np.float64(-4.257142857142853)], y: [np.float64(-34.67432950191571), np.float64(-42.409523809523805)], z: [np.float64(34.643678160919535), np.float64(62.879999999999997)]
Conexion: x: [np.float64(-6.5928853754940775), np.float64(9.451737451737458)], y: [np.float64(-24.19762845849803), np.float64(-27.405405405405403)], z: [np.float64(44.26877470355731), np.float64(45.44401544401545)]
Conexion: x: [np.float64(-6.5928853754940775), np.float64(6.343859649122805)], y: [np.float64(-24.1

9762845849803), np.float64(-17.298245614035082)], z: [np.float64(44.26877470355731), np.float64(42.891228070175444)]
Conexion: x: [np.float64(-6.5928853754940775), np.float64(-5.44444444444443)], y: [np.float64(-24.19762845849803), np.float64(-15.230158730158735)], z: [np.float64(44.26877470355731), np.float64(56.0952380952381)]
Conexion: x: [np.float64(-6.0297029702970235), np.float64(8.666666666666671)], y: [np.float64(-38.00990909090901), np.float64(-37.90049751243781)], z: [np.float64(40.95049504950495), np.float64(42.4776119402985)]
Conexion: x: [np.float64(-6.0297029702970235), np.float64(-7.268817204301072)], y: [np.float64(-38.00990909090901), np.float64(-50.200716845878134)], z: [np.float64(40.95049504950495), np.float64(4761.096774193548384)]
Conexion: x: [np.float64(-5.017094017094024), np.float64(6.442105263157899)], y: [np.float64(-5.7521367521367495), np.float64(-4.582456140350871)], z: [np.float64(37.66666666666667), np.float64(39.53684210526316)]
Conexion: x: [np.float64(6.874015748031496), np.float64(8.666666666666671)], y: [np.float64(-23.61417322834646), np.float64(-37.90049751243781)], z: [np.float64(37.7952755905511), np.float64(42.4776119402985)]
Conexion: x: [np.float64(8.4663212432331), np.float64(8.666666666666671)], y: [np.float64(-42.29015544041451), np.float64(-37.90049751243781)], z: [np.float64(34.41450777202073), np.float64(42.4776119402985)]
Conexion: x: [np.float64(8.4663212432331), np.float64(7.17611940298508)], y: [np.float64(-42.29015544041451), np.float64(-43.0865671641791)], z: [np.float64(34.41450777202073), np.float64(20.4776191044775)]
Conexion: x: [np.float64(9.451737451737458), np.float64(6.343859649122805)], y: [np.float64(-27.405405405405403), np.float64(-17.298245614035082)], z: [np.float64(45.44401544401545), np.float64(42.891228070175444)]
Conexion: x: [np.float64(9.451737451737458), np.float64(8.666666666666671)], y: [np.float64(-27.405405405405403), np.float64(-37.90049751243781)], z: [np.float64(45.44401544401545), np.float64(42.4776119402985)]
Conexion: x: [np.float64(9.451737451737458), np.float64(8.6530622448979)], y: [np.float64(-27.405405405405403), np.float64(-21.4427168707483)], z: [np.float64(45.44401544401545), np.float64(54.81632653061226)]
Conexion: x: [np.float64(8.1869918699187), np.float64(8.421940928270047)], y: [np.float64(19.86178861788619), np.float64(26.405063291139243)], z: [np.float64(33.11382113821138), np.float64(36.42194092827005)]
Conexion: x: [np.float64(8.1869918699187), np.float64(6.831275720164612)], y: [np.float64(19.86178861788619), np.float64(6.189300411522623)], z: [np.float64(33.11382113821138), np.float64(36.53497942386831)]
Conexion: x: [np.float64(8.1869918699187), np.float64(41.559471365638764)], y: [np.float64(19.86178861788619), np.float64(40.25550667929505)], z: [np.float64(33.11382113821138), np.float64(25.866079295154182)]
Conexion: x: [np.float64(8.1869918699187), np.float64(-31.52380952380952)], y: [np.float64(19.86178861788619), np.float64(23.3113553113553)], z: [np.float64(33.11382113821138), np.float64(1.38461538

46153868)]
Conexion: x: [np.float64(8.1869918699187), np.float64(37.201581027667984)], y: [np.float64(19.86178861788619), np.float64(23.87351778656125)], z: [np.float64(33.11382113821138), np.float64(0.19762845849803057)]
Conexion: x: [np.float64(8.1869918699187), np.float64(40.33333333333336)], y: [np.float64(19.86178861788619), np.float64(13.207407407407402)], z: [np.float64(33.11382113821138), np.float64(0.28148148148148171)]
Conexion: x: [np.float64(6.343859649122805), np.float64(6.442105263157899)], y: [np.float64(-17.298245614035082), np.float64(-4.582456140350871)], z: [np.float64(42.89122807175444), np.float64(39.53684210526316)]
Conexion: x: [np.float64(6.343859649122805), np.float64(8.65306122448979)], y: [np.float64(-17.298245614035082), np.float64(-21.4421768707483)], z: [np.float64(42.89122807175444), np.float64(54.81632653061226)]
Conexion: x: [np.float64(6.442105263157899), np.float64(6.831275720164612)], y: [np.float64(-4.582456140350871), np.float64(6.18930041512623)], z: [np.float64(39.53684210526316), np.float64(36.532497942386831)]
Conexion: x: [np.float64(6.442105263157899), np.float64(8.006622516556291)], y: [np.float64(-4.582456140350871), np.float64(-2.4635761589403984)], z: [np.float64(39.53684210526316), np.float64(52.09933774834437)]
Conexion: x: [np.float64(8.421940928270047), np.float64(-5.677419354838705)], y: [np.float64(26.405063291139243), np.float64(26.66129032258064)], z: [np.float64(36.42194092827005), np.float64(40.314516129032256)]
Conexion: x: [np.float64(8.421940928270047), np.float64(7.425925925925924)], y: [np.float64(26.40563291139243), np.float64(27.944444444444457)], z: [np.float64(36.42194092827005), np.float64(48.5181581851852)]
Conexion: x: [np.float64(8.421940928270047), np.float64(-31.52380952380952)], y: [np.float64(26.405063291139243), np.float64(23.3113553113553)], z: [np.float64(36.42194092827005), np.float64(1.3846153846153868)]
Conexion: x: [np.float64(8.421940928270047), np.float64(37.201581027667984)], y: [np.float64(26.405063291139243), np.float64(23.87351778656125)], z: [np.float64(36.42194092827005), np.float64(0.19762845849803057)]
Conexion: x: [np.float64(8.421940928270047), np.float64(40.33333333333336)], y: [np.float64(26.405063291139243), np.float64(13.207407407407402)], z: [np.float64(36.42194092827005), np.float64(0.28148148148148171)]
Conexion: x: [np.float64(8.421940928270047), np.float64(-2.606837606837601)], y: [np.float64(26.405063291139243), np.float64(12.0)], z: [np.float64(36.42194092827005), np.float64(55.27350427350427)]
Conexion: x: [np.float64(8.421940928270047), np.float64(-4.55230125523012)], y: [np.float64(26.405063291139243), np.float64(17.054393305439334)], z: [np.float64(36.42194092827005), np.float64(47.84937238493724)]
Conexion: x: [np.float64(8.421940928270047), np.float64(7.942446043165461)], y: [np.float64(26.405063291139243), np.float64(14.05939712232004)], z: [np.float64(36.42194092827005), np.float64(49.99280575539568)]
Conexion: x: [np.float64(8.666666666666671), np.float64(9.263157894736835)], y: [np.float64(-37.900

49751243781), np.float64(-45.705263157894734)], z: [np.float64(42.4776119402985), np.float64(45.92982456140351)]
Conexion: x: [np.float64(-5.992094861660078), np.float64(-4.257142857142853)], y: [np.float64(-45.63636363636364), np.float64(-42.409523809523805)], z: [np.float64(18.695652173913047), np.float64(28.799999999999997)]
Conexion: x: [np.float64(-5.992094861660078), np.float64(7.17611940298508)], y: [np.float64(-45.6363636364), np.float64(-43.0865671641791)], z: [np.float64(18.695652173913047), np.float64(20.471641791044775)]
Conexion: x: [np.float64(-5.992094861660078), np.float64(-47.54751131221718)], y: [np.float64(-45.636363636364), np.float64(-61.809954751131215)], z: [np.float64(18.695652173913047), np.float64(25.366515837104075)]
Conexion: x: [np.float64(-5.992094861660078), np.float64(-5.976095617529879)], y: [np.float64(-45.636363636364), np.float64(-57.6972115537848)], z: [np.float64(18.695652173913047), np.float64(31.434262948207177)]
Conexion: x: [np.float64(-5.992094861660078), np.float64(-10.733668341708537)], y: [np.float64(-45.636363636364), np.float64(-51.1608040201005)], z: [np.float64(18.695652173913047), np.float64(11.32663316582915)]
Conexion: x: [np.float64(-4.257142857142853), np.float64(7.17611940298508)], y: [np.float64(-42.409523809523805), np.float64(-43.0865671641791)], z: [np.float64(28.799999999999997), np.float64(20.471641791044775)]
Conexion: x: [np.float64(7.17611940298508), np.float64(9.97839350180505)], y: [np.float64(-43.0865671641791), np.float64(-55.27797839350184)], z: [np.float64(20.471641791044775), np.float64(27.53068592057761)]
Conexion: x: [np.float64(7.17611940298508), np.float64(13.460396039603964)], y: [np.float64(-43.0865671641791), np.float64(-48.069306930693074)], z: [np.float64(20.471641791044775), np.float64(11.13366336636634)]
Conexion: x: [np.float64(-8.206489675516224), np.float64(-3.8660714285714306)], y: [np.float64(-68.33038348082596), np.float64(-79.02678571428572)], z: [np.float64(26.359882005899706), np.float64(20.99107142857143)]
Conexion: x: [np.float64(-8.206489675516224), np.float64(-6.538745387453872)], y: [np.float64(-68.33038348082596), np.float64(-81.33579335793358)], z: [np.float64(26.359882005899706), np.float64(35.380073800738)]
Conexion: x: [np.float64(-8.206489675516224), np.float64(9.564575645756463)], y: [np.float64(-68.33038348082596), np.float64(-72.96678966789668)], z: [np.float64(26.359882005899706), np.float64(28.08560885608857)]
Conexion: x: [np.float64(-8.206489675516224), np.float64(-6.97211553784856)], y: [np.float64(-68.33038348082596), np.float64(-63.31474103585657)], z: [np.float64(26.359882005899706), np.float64(42.785653705179287)]
Conexion: x: [np.float64(-3.8660714285714306), np.float64(-1.794117647058826)], y: [np.float64(-79.02678571428572), np.float64(-87.08823529411765)], z: [np.float64(20.99107142857143), np.float64(24.147058823529406)]
Conexion: x: [np.float64(-3.8660714285714306), np.float64(11.41125541125541)], y: [np.float64(-79.02678571428572), np.float64(-76.47619047619048)], z: [np.float64(20.99107142857143), np.float64(25.2

46753246753244)]
Conexion: x: [np.float64(-3.8660714285714306), np.float64(-11.8429003021148)], y: [np.float64(-79.02678571428572), np.float64(-77.31117824773415)], z: [np.float64(20.99107142857143), np.float64(11.29909365589118)]
Conexion: x: [np.float64(-8.21052631578948), np.float64(-6.538745387453872)], y: [np.float64(-90.7732793522267), np.float64(-81.33579335793358)], z: [np.float64(29.141700404858298), np.float64(35.380073800738)]
Conexion: x: [np.float64(-8.21052631578948), np.float64(-1.794117647058826)], y: [np.float64(-90.7732793522267), np.float64(-87.08823529411765)], z: [np.float64(29.141700404858298), np.float64(24.147058823529406)]
Conexion: x: [np.float64(-8.21052631578948), np.float64(14.50892857142857)], y: [np.float64(-90.7732793522267), np.float64(-83.57142857142857)], z: [np.float64(29.141700404858298), np.float64(30.440785714285708)]
Conexion: x: [np.float64(-8.21052631578948), np.float64(-14.915254237288138)], y: [np.float64(-90.7732793522267), np.float64(-87.28135593220338)], z: [np.float64(29.141700404858298), np.float64(20.88813559322034)]
Conexion: x: [np.float64(-8.21052631578948), np.float64(-16.328358208955223)], y: [np.float64(-90.7732793522267), np.float64(-83.3507462686567)], z: [np.float64(29.141700404858298), np.float64(31.147058823529406)]
Conexion: x: [np.float64(-8.21052631578948), np.float64(18.692307692307693)], y: [np.float64(-90.7732793522267), np.float64(-84.91346153846155)], z: [np.float64(29.141700404858298), np.float64(28.57692307692307)]
Conexion: x: [np.float64(-7.262711864406782), np.float64(-1.794117647058826)], y: [np.float64(-87.52542372881356), np.float64(-87.08823529411765)], z: [np.float64(17.16101694915254), np.float64(24.147058823529406)]
Conexion: x: [np.float64(-7.262711864406782), np.float64(-14.915254237288138)], y: [np.float64(-87.52542372881356), np.float64(-87.28135593220338)], z: [np.float64(29.141700404858298), np.float64(20.88813559322034)]
Conexion: x: [np.float64(-7.262711864406782), np.float64(1.05263157894737)], y: [np.float64(-87.52542372881356), np.float64(-86.70676691729324)], z: [np.float64(17.16101694915254), np.float64(9.488721804511272)]
Conexion: x: [np.float64(-7.262711864406782), np.float64(-11.8429003021148)], y: [np.float64(-87.52542372881356), np.float64(-77.31117824773415)], z: [np.float64(17.16101694915254), np.float64(11.29909365589118)]
Conexion: x: [np.float64(-6.538745387453872), np.float64(-16.328358208955223)], y: [np.float64(-81.33579335793358), np.float64(-83.3507462686567)], z: [np.float64(35.380073800738), np.float64(31.13432835820896)]
Conexion: x: [np.float64(-6.538745387453872), np.float64(23.73553719008264)], y: [np.float64(-81.33579335793358), np.float64(-82.31404958677686)], z: [np.float64(35.380073800738), np.float64(35.719008264462815)]
Conexion: x: [np.float64(-6.538745387453872), np.float64(-7.233480176211458)], y: [np.float64(-81.33579335793358), np.float64(-75.13656387665199)], z: [np.float64(35.380073800738), np.float64(44.2550660792952)]

Conexion: x: [np.float64(-1.794117647058826), np.float64(12.579365079365076)], y: [np.float64(-87.08823529411765), np.float64(-83.18253968253968)], z: [np.float64(24.147058823529406), np.float64(19.698412698412696)]
Conexion: x: [np.float64(-1.794117647058826), np.float64(11.41125541125541)], y: [np.float64(-87.08823529411765), np.float64(-76.47619047619048)], z: [np.float64(24.147058823529406), np.float64(25.246753246753244)]
Conexion: x: [np.float64(14.50892857142857), np.float64(9.564575645756463)], y: [np.float64(-83.57142857142857), np.float64(-72.96678966789668)], z: [np.float64(28.401785714285708), np.float64(28.08560885608857)]
Conexion: x: [np.float64(14.50892857142857), np.float64(11.41125541125541)], y: [np.float64(-83.57142857142857), np.float64(-76.47619047619048)], z: [np.float64(30.401785714285708), np.float64(25.246753246753244)]
Conexion: x: [np.float64(14.50892857142857), np.float64(15.74647887323944)], y: [np.float64(-83.57142857142857), np.float64(-78.06338028169014)], z: [np.float64(30.401785714285708), np.float64(39.767605633802816)]
Conexion: x: [np.float64(14.50892857142857), np.float64(18.692307692307693)], y: [np.float64(-83.57142857142857), np.float64(-84.91346153846155)], z: [np.float64(30.401785714285708), np.float64(28.57692307692307)]
Conexion: x: [np.float64(9.564575645756463), np.float64(11.41125541125541)], y: [np.float64(-72.96678966789668), np.float64(-76.47619047619048)], z: [np.float64(28.088560885608857), np.float64(25.246753246753244)]
Conexion: x: [np.float64(9.564575645756463), np.float64(15.74647887323944)], y: [np.float64(-72.96678966789668), np.float64(-78.06338028169014)], z: [np.float64(28.088560885608857), np.float64(39.767605633802816)]
Conexion: x: [np.float64(9.564575645756463), np.float64(10.775510204081627)], y: [np.float64(-72.96678966789668), np.float64(-69.0448975918367)], z: [np.float64(28.088560885608857), np.float64(37.31428571428572)]
Conexion: x: [np.float64(9.564575645756463), np.float64(14.458181818181814)], y: [np.float64(-72.96678966789668), np.float64(-61.18545454545455)], z: [np.float64(28.088560885608857), np.float64(24.35636363636364)]
Conexion: x: [np.float64(12.579365079365076), np.float64(11.41125541125541)], y: [np.float64(-83.18253968253968), np.float64(-76.47619047619048)], z: [np.float64(19.698412698412696), np.float64(25.246753246753244)]
Conexion: x: [np.float64(12.579365079365076), np.float64(11.1958041958042)], y: [np.float64(-83.18253968253968), np.float64(-85.1048951048951)], z: [np.float64(19.698412698412696), np.float64(10.2727272727266)]
Conexion: x: [np.float64(11.41125541125541), np.float64(13.44720496894416)], y: [np.float64(-76.47619047619048), np.float64(-72.24844728496895)], z: [np.float64(25.246753246753244), np.float64(11.434782608695656)]
Conexion: x: [np.float64(16.4320987654321), np.float64(-24.0)], y: [np.float64(-95.48148148148148), np.float64(-94.23423423423424)], z: [np.float64(10.654320987654316), np.float64(8.108108108108112)]
Conexion: x: [np.float64(16.4320987654321), np.float64(-12.970464135021103)], y: [np.float64(-95.48148148148148), np.float64(-95.39240506329114)], z: [np.float64(10.654320987654316), np.float64(9.923

2067510548518]]
Conexión: x: [np.float64(16.4320987654321), np.float64(23.755319148936167)], y: [np.float64(-95.48148148148148), np.float64(-90.56382978723404)], z: [np.float64(10.654320987654316), np.float64(12.031914893617028)]
Conexión: x: [np.float64(16.4320987654321), np.float64(-7.82222222222223)], y: [np.float64(-95.48148148148148), np.float64(-100.4111111111111)], z: [np.float64(10.654320987654316), np.float64(-1.37777777777778)]
Conexión: x: [np.float64(16.4320987654321), np.float64(17.75)], y: [np.float64(-95.48148148148148), np.float64(-96.546875)], z: [np.float64(10.654320987654316), np.float64(-0.75)]
Conexión: x: [np.float64(16.4320987654321), np.float64(11.1958041958042)], y: [np.float64(-95.48148148148148), np.float64(-85.1048951048951)], z: [np.float64(10.654320987654316), np.float64(10.2727272727266)]
Conexión: x: [np.float64(15.74647887323944), np.float64(-17.156549520766774)], y: [np.float64(-78.06338028169014), np.float64(-79.09265175718849)], z: [np.float64(39.767605633802816), np.float64(40.626198083067095)]
Conexión: x: [np.float64(15.74647887323944), np.float64(23.73553719008264)], y: [np.float64(-78.06338028169014), np.float64(-82.3140495867686)], z: [np.float64(39.767605633802816), np.float64(35.719008264462815)]
Conexión: x: [np.float64(15.74647887323944), np.float64(10.775510204081627)], y: [np.float64(-78.06338028169014), np.float64(-69.04489795918367)], z: [np.float64(39.767605633802816), np.float64(37.31428571428572)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(-47.70506912442397)], y: [np.float64(12.0), np.float64(7.7889184331797295)], z: [np.float64(7.425531914893611), np.float64(14.875576036866363)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(-47.655462184873954)], y: [np.float64(12.0), np.float64(13.411764705882348)], z: [np.float64(7.425531914893611), np.float64(16.722689075630257)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(51.43726235741445)], y: [np.float64(12.0), np.float64(14.646387832699617)], z: [np.float64(7.425531914893611), np.float64(4.365019011406844)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(-46.77735849056603)], y: [np.float64(12.0), np.float64(19.871698113207543)], z: [np.float64(7.425531914893611), np.float64(7.1622641509434)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(-31.948717948717942)], y: [np.float64(12.0), np.float64(14.8864468864689)], z: [np.float64(7.425531914893611), np.float64(9.31868131868131)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(40.33333333333336)], y: [np.float64(12.0), np.float64(13.207407407407402)], z: [np.float64(7.425531914893611), np.float64(0.2814814814814781)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(-47.27516778523491)], y: [np.float64(12.0), np.float64(-0.6577181280853702)], z: [np.float64(7.425531914893611), np.float64(8.053691275167779)]
Conexión: x: [np.float64(-46.29787234042553), np.float64(-51.652830188679246)], y: [np.float64(12.0), np.float64(7.992452830188621)], z: [np.float64(7.425531914893611), np.float64(-12.6716981132075

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Conexión: x: [np.float64(-51.27088607594936), np.float64(-47.655462184873954)], y: [np.float64(12.12658227848101), np.float64(13.411764705882348)], z: [np.float64(24.99746835443038), np.float64(16.722689075630257)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(52.421487603305785)], y: [np.float64(12.12658227848101), np.float64(13.487603305785115)], z: [np.float64(24.99746835443038), np.float64(17.30775123966942)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(51.693023255813955)], y: [np.float64(12.12658227848101), np.float64(11.283720930232562)], z: [np.float64(24.99746835443038), np.float64(25.20000000000003)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-44.743494423791816)], y: [np.float64(12.12658227848101), np.float64(32.37918215613382)], z: [np.float64(24.99746835443038), np.float64(18.84014869888476)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-46.27755102040817)], y: [np.float64(12.12658227848101), np.float64(25.387755102040813)], z: [np.float64(24.99746835443038), np.float64(1.787755102040819)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-45.769230769230774)], y: [np.float64(12.12658227848101), np.float64(27.01538461538462)], z: [np.float64(24.99746835443038), np.float64(24.830769230769235)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-48.376811594202906)], y: [np.float64(12.12658227848101), np.float64(17.775362318840592)], z: [np.float64(24.99746835443038), np.float64(26.76086956521739)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-44.77902621722848)], y: [np.float64(12.12658227848101), np.float64(17.303370786516865)], z: [np.float64(24.99746835443038), np.float64(37.14606741573034)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-5.677419354838705)], y: [np.float64(12.12658227848101), np.float64(26.66129032258064)], z: [np.float64(24.99746835443038), np.float64(40.314516129032256)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-31.52380952380952)], y: [np.float64(12.12658227848101), np.float64(23.311353113553)], z: [np.float64(24.99746835443038), np.float64(1.3846153846153868)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(37.201581027667984)], y: [np.float64(12.12658227848101), np.float64(23.87351778656125)], z: [np.float64(24.99746835443038), np.float64(0.19762845849803057)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-37.10914454277287)], y: [np.float64(12.12658227848101), np.float64(-55.687315634218294)], z: [np.float64(24.99746835443038), np.float64(52.607669616519175)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-41.091445427728615)], y: [np.float64(12.12658227848101), np.float64(-44.525073746312685)], z: [np.float64(24.99746835443038), np.float64(52.14749262536873)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-30.609970674486803)], y: [np.float64(12.12658227848101), np.float64(-64.96774193548387)], z: [np.float64(24.99746835443038), np.float64(43.313782991202345)]

Conexión: x: [np.float64(-51.27088607594936), np.float64(-30.687074829931973)], y: [np.float64(12.12658227848101), np.float64(-61.74829931972789)], z: [np.float64(24.99746835443038), np.float64(53.25170068027211)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-48.1930501930502)], y: [np.float64(12.12658227848101), np.float64(7.0888030888030755)], z: [np.float64(24.99746835443038), np.float64(32.30880308880305)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-53.05882352941177)], y: [np.float64(12.12658227848101), np.float64(-2.622837370242223)], z: [np.float64(24.99746835443038), np.float64(22.95501730103807)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-41.230158730158735)], y: [np.float64(12.12658227848101), np.float64(0.1428571428571388)], z: [np.float64(24.99746835443038), np.float64(48.58730158730158)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-2.606837606837601)], y: [np.float64(12.12658227848101), np.float64(12.0)], z: [np.float64(24.99746835443038), np.float64(55.27350427350427)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(-4.55230125523012)], y: [np.float64(12.12658227848101), np.float64(17.054393305439334)], z: [np.float64(24.99746835443038), np.float64(47.84937238493724)]
Conexión: x: [np.float64(-51.27088607594936), np.float64(7.942446043165461)], y: [np.float64(12.12658227848101), np.float64(14.050359712230204)], z: [np.float64(24.99746835443038), np.float64(49.99280575539568)]
Conexión: x: [np.float64(-47.70506912442397), np.float64(-47.655462184873954)], y: [np.float64(7.7880184331797295), np.float64(13.411764705882348)], z: [np.float64(14.875576036866363), np.float64(16.722689075630257)]
Conexión: x: [np.float64(-47.70506912442397), np.float64(-48.571428571428584)], y: [np.float64(7.7880184331797295), np.float64(0.6734936755091)], z: [np.float64(14.875576036866363), np.float64(13.132653061224488)]
Conexión: x: [np.float64(-47.655462184873954), np.float64(-49.66666666666666)], y: [np.float64(13.411764705882348), np.float64(21.724999999999994)], z: [np.float64(16.722689075630257), np.float64(17.950000000000003)]
Conexión: x: [np.float64(-47.655462184873954), np.float64(-46.77735849056603)], y: [np.float64(13.411764705882348), np.float64(19.871698113207543)], z: [np.float64(16.722689075630257), np.float64(7.1622641509434)]
Conexión: x: [np.float64(51.43726235741445), np.float64(55.407766990291265)], y: [np.float64(14.646387832699617), np.float64(14.0)], z: [np.float64(4.365019011406844), np.float64(11.5631067961165)]
Conexión: x: [np.float64(51.43726235741445), np.float64(54.24545454545454)], y: [np.float64(14.646387832699617), np.float64(22.681818181818187)], z: [np.float64(4.365019011406844), np.float64(3.6545454545456)]
Conexión: x: [np.float64(51.43726235741445), np.float64(-35.60942760942761)], y: [np.float64(14.646387832699617), np.float64(14.17508417508418)], z: [np.float64(4.365019011406844), np.float64(-6.350168350168346)]
Conexión: x: [np.float64(51.43726235741445), np.float64(40.33333333333336)], y: [np.float64(14.646387832699617), np.float64(13.207407407407402)], z: [np.float64(14.365019011406844), np.float64(0.2814814814814781)]

Conexión: x: [np.float64(51.43726235741445), np.float64(51.52873563218391)], y: [np.float64(14.646387832699617), np.float64(4.22988505747125)], z: [np.float64(4.365019011406844), np.float64(5.436781609195407)]
Conexión: x: [np.float64(51.43726235741445), np.float64(6.018018018018012)], y: [np.float64(14.646387832699617), np.float64(9.360360360360374)], z: [np.float64(4.365019011406844), np.float64(59.29729729729729)]
Conexión: x: [np.float64(45.06837606837607), np.float64(51.693023255813955)], y: [np.float64(11.418803418803407), np.float64(11.283720930232562)], z: [np.float64(32.5042735042735), np.float64(25.20000000000003)]
Conexión: x: [np.float64(45.06837606837607), np.float64(44.18410041841004)], y: [np.float64(11.418803418803407), np.float64(16.878661087866107)], z: [np.float64(32.5042735042735), np.float64(31.43096234309624)]
Conexión: x: [np.float64(45.06837606837607), np.float64(47.55905511811024)], y: [np.float64(11.418803418803407), np.float64(31.38582677165354)], z: [np.float64(32.5042735042735), np.float64(22.46456929133852)]
Conexión: x: [np.float64(45.06837606837607), np.float64(43.714285714285715)], y: [np.float64(11.418803418803407), np.float64(7.755102040816325)], z: [np.float64(32.5042735042735), np.float64(47.03673469387755)]
Conexión: x: [np.float64(45.06837606837607), np.float64(44.006472491909385)], y: [np.float64(11.418803418803407), np.float64(20.433656957928804)], z: [np.float64(32.5042735042735), np.float64(40.6860841239482)]
Conexión: x: [np.float64(45.06837606837607), np.float64(-48.1930501930502)], y: [np.float64(11.418803418803407), np.float64(7.0888030888030755)], z: [np.float64(32.5042735042735), np.float64(32.30880308880305)]
Conexión: x: [np.float64(45.06837606837607), np.float64(50.06896551724138)], y: [np.float64(11.418803418803407), np.float64(7.400000000000006)], z: [np.float64(32.5042735042735), np.float64(40.28965517241379)]
Conexión: x: [np.float64(45.06837606837607), np.float64(52.66013071895425)], y: [np.float64(11.418803418803407), np.float64(4.405228758169926)], z: [np.float64(32.5042735042735), np.float64(31.60130718954248)]
Conexión: x: [np.float64(52.421487603305785), np.float64(51.693023255813955)], y: [np.float64(13.487603305785115), np.float64(11.283720930232562)], z: [np.float64(17.305785123966942), np.float64(25.200000000000003)]
Conexión: x: [np.float64(52.421487603305785), np.float64(55.407766990291265)], y: [np.float64(13.487603305785115), np.float64(14.0)], z: [np.float64(17.305785123966942), np.float64(11.5631067961165)]
Conexión: x: [np.float64(52.421487603305785), np.float64(50.44615384615385)], y: [np.float64(13.487603305785115), np.float64(18.94615384615384)], z: [np.float64(17.305785123966942), np.float64(21.34615384615384)]
Conexión: x: [np.float64(52.421487603305785), np.float64(59.523809523809526)], y: [np.float64(13.487603305785115), np.float64(4.365079365079225)], z: [np.float64(17.305785123966942), np.float64(22.007936507936506)]
Conexión: x: [np.float64(51.693023255813955), np.float64(44.18410041841004)], y: [np.float64(11.283

720930232562], np.float64(16.878661087866107)], z: [np.float64(25.200000000000003), np.float64(31.43096234309624)]

Conexion: x: [np.float64(51.693023255813955), np.float64(50.44615384615385)], y: [np.float64(11.283720930232562), np.float64(18.946153846153834)], z: [np.float64(25.200000000000003), np.float64(21.34615384615384)]

Conexion: x: [np.float64(51.693023255813955), np.float64(48.1930501930502)], y: [np.float64(11.283720930232562), np.float64(7.0888030888030755)], z: [np.float64(25.200000000000003), np.float64(32.308880308880305)]

Conexion: x: [np.float64(51.693023255813955), np.float64(50.06896551724138)], y: [np.float64(11.283720930232562), np.float64(7.400000000000006)], z: [np.float64(25.200000000000003), np.float64(40.28965517241379)]

Conexion: x: [np.float64(51.693023255813955), np.float64(52.66013071895425)], y: [np.float64(11.283720930232562), np.float64(4.405228758169926)], z: [np.float64(25.200000000000003), np.float64(31.60130718954248)]

Conexion: x: [np.float64(44.18410041841004), np.float64(50.44615384615385)], y: [np.float64(16.87861087866107)], np.float64(18.946153846153834)], z: [np.float64(31.43096234309624), np.float64(21.34615384615384)]

Conexion: x: [np.float64(44.18410041841004), np.float64(46.693548387096776)], y: [np.float64(16.87861087866107)], np.float64(24.64516129032259)], z: [np.float64(31.43096234309624), np.float64(26.540322580645167)]

Conexion: x: [np.float64(44.1841004184004), np.float64(44.69285714285714)], y: [np.float64(16.87861087866107)], np.float64(29.1928571428715)], z: [np.float64(31.43096234309624), np.float64(33.778571428571425)]

Conexion: x: [np.float64(44.18410041841004), np.float64(44.006472491909385)], y: [np.float64(16.87861087866107)], np.float64(20.43365695728804)], z: [np.float64(31.43096234309624), np.float64(40.6808414239482)]

Conexion: x: [np.float64(55.407766990291265), np.float64(48.87248322147651)], y: [np.float64(14.0), np.float64(4.919463087248317)], z: [np.float64(11.5631067961165), np.float64(15.832214765100673)]

Conexion: x: [np.float64(37.7844827586207)], np.float64(35.256281407035175)], y: [np.float64(39.508620689655174), np.float64(37.6281407035176)], z: [np.float64(10.094827586206897), np.float64(12.974874371859293)]

Conexion: x: [np.float64(37.7844827586207)], np.float64(45.695431472081225)], y: [np.float64(39.508620689655174), np.float64(36.96446700507613)], z: [np.float64(10.094827586206897), np.float64(4.6385786802030452)]

Conexion: x: [np.float64(37.7844827586207)], np.float64(40.7913043478261)], y: [np.float64(39.508620689655174), np.float64(50.24347826086955)], z: [np.float64(10.094827586206897), np.float64(5.304347826086953)]

Conexion: x: [np.float64(42.86098654708519), np.float64(35.256281407035175)], y: [np.float64(39.508620689655174), np.float64(37.6281407035176)], z: [np.float64(12.860986547085204), np.float64(1.2974874371859293)]

Conexion: x: [np.float64(42.86098654708519), np.float64(46.669683257918564)], y: [np.float64(28.035874439461878)], np.float64(22.95927601809956)], z: [np.float64(12.860986547085204), np.float64(6.7303167420814475)]

9454545454545524), np.float64(14.981132075471692)], z: [np.float64(18.454545454545453), np.float64(41.16.596226415094363)]

Conexion: x: [np.float64(23.509090909090915), np.float64(26.611111111111114)], y: [np.float64(1.9454545454545524), np.float64(11.992063492063494)], z: [np.float64(18.454545454545453), np.float64(41.18.96825396825397)]

Conexion: x: [np.float64(23.509090909090915), np.float64(20.04132231404958)], y: [np.float64(1.9454545454545524), np.float64(2.04132231404958)], z: [np.float64(18.454545454545453), np.float64(26.33057851239669)]

Conexion: x: [np.float64(23.509090909090915), np.float64(20.10434782608695)], y: [np.float64(1.9454545454545524), np.float64(2.486956521739131)], z: [np.float64(18.454545454545453), np.float64(23.930434782608693)]

Conexion: x: [np.float64(45.689655172413794), np.float64(38.41025641025641)], y: [np.float64(33.97413793103448), np.float64(25.333333333333343)], z: [np.float64(14.051724137931032), np.float64(16.726495726495727)]

Conexion: x: [np.float64(45.689655172413794), np.float64(52.08764940239044)], y: [np.float64(33.97413793103448), np.float64(38.0)], z: [np.float64(14.051724137931032), np.float64(6.749003984063748)]

Conexion: x: [np.float64(45.689655172413794), np.float64(51.266129032258064)], y: [np.float64(33.97413793103448), np.float64(25.33870967741936)], z: [np.float64(14.051724137931032), np.float64(8.193548387096769)]

Conexion: x: [np.float64(45.689655172413794), np.float64(42.02469135802469)], y: [np.float64(33.97413793103448), np.float64(41.30864197530863)], z: [np.float64(14.051724137931032), np.float64(10.592592592592595)]

Conexion: x: [np.float64(31.083969465648856), np.float64(38.41025641025641)], y: [np.float64(31.7709923664122), np.float64(25.333333333333343)], z: [np.float64(17.458015267175576), np.float64(16.726495726495727)]

Conexion: x: [np.float64(31.083969465648856), np.float64(25.74683544303798)], y: [np.float64(31.7709923664122), np.float64(20.734177215189874)], z: [np.float64(17.458015267175576), np.float64(19.34177215189873)]

Conexion: x: [np.float64(38.41025641025641), np.float64(25.74683544303798)], y: [np.float64(25.333333333333343), np.float64(20.734177215189874)], z: [np.float64(16.726495726495727), np.float64(41.19.34177215189873)]

Conexion: x: [np.float64(38.41025641025641), np.float64(37.2015810272667984)], y: [np.float64(25.333333333333343), np.float64(23.87351778656125)], z: [np.float64(16.726495726495727), np.float64(0.19762845849803057)]

Conexion: x: [np.float64(38.41025641025641), np.float64(33.4863813229572)], y: [np.float64(25.333333333333343), np.float64(16.871595330739297)], z: [np.float64(16.726495726495727), np.float64(13.98443579766537)]

Conexion: x: [np.float64(25.74683544303798), np.float64(33.4863813229572)], y: [np.float64(20.73417215189874), np.float64(16.871595330739297)], z: [np.float64(19.34177215189873), np.float64(13.98443579766537)]

Conexion: x: [np.float64(52.08764940239044), np.float64(42.02469135802469)], y: [np.float64(38.0), np.float64(41.30864197530863)], z: [np.float64(6.749003984063748), np.float64(10.592592592592595]

Conexion: x: [np.float64(42.86098654708519), np.float64(45.695431472081225)], y: [np.float64(28.035874439461878), np.float64(36.96446700507613)], z: [np.float64(12.860986547085204), np.float64(6.385786802030452)]

Conexion: x: [np.float64(42.86098654708519), np.float64(31.714285714285708)], y: [np.float64(28.035874439461878), np.float64(28.73260073260073)], z: [np.float64(12.860986547085204), np.float64(16.468864468864467)]

Conexion: x: [np.float64(35.256281407035175), np.float64(31.714285714285708)], y: [np.float64(37.6281407035176), np.float64(28.73260073260073)], z: [np.float64(12.974874371859293), np.float64(16.468864468864467)]

Conexion: x: [np.float64(35.256281407035175), np.float64(24.421052631578945)], y: [np.float64(37.6281407035176), np.float64(38.67543859649123)], z: [np.float64(12.974874371859293), np.float64(16.675438596491226)]

Conexion: x: [np.float64(46.669683257918564), np.float64(46.27755102040817)], y: [np.float64(22.95927601809956), np.float64(25.387755102040813)], z: [np.float64(7.303167420814475), np.float64(1.787755102040819)]

Conexion: x: [np.float64(46.669683257918564), np.float64(35.60942760942761)], y: [np.float64(22.95927601809956), np.float64(14.17508417508418)], z: [np.float64(7.303167420814475), np.float64(6.350168350168346)]

Conexion: x: [np.float64(46.669683257918564), np.float64(47.69999999999999)], y: [np.float64(22.95927601809956), np.float64(13.0)], z: [np.float64(7.303167420814475), np.float64(15.169230769230772)]

Conexion: x: [np.float64(45.695431472081225), np.float64(43.36603773584906)], y: [np.float64(36.96446700507613), np.float64(39.418867924528314)], z: [np.float64(6.385786802030452), np.float64(1.0339622641509436)]

Conexion: x: [np.float64(22.991304347826087), np.float64(14.754448398576514)], y: [np.float64(19.52463768115942), np.float64(25.96441281137888)], z: [np.float64(21.98840579710145), np.float64(21.110320284697508)]

Conexion: x: [np.float64(22.991304347826087), np.float64(6.772455089820355)], y: [np.float64(19.52463768115942), np.float64(22.101796407185617)], z: [np.float64(21.98840579710145), np.float64(19.2403592814371255)]

Conexion: x: [np.float64(22.991304347826087), np.float64(33.699604743083)], y: [np.float64(19.52463768115942), np.float64(18.189723320158095)], z: [np.float64(21.98840579710145), np.float64(27.73913043478261)]

Conexion: x: [np.float64(31.714285714285708), np.float64(24.421052631578945)], y: [np.float64(28.73260073260073), np.float64(38.67543859649123)], z: [np.float64(16.468864468864467), np.float64(16.675438596491226)]

Conexion: x: [np.float64(23.509090909090915), np.float64(27.05645161290323)], y: [np.float64(1.94545454545524), np.float64(0.5725806451612954)], z: [np.float64(18.454545454545453), np.float64(18.806451612903224)]

Conexion: x: [np.float64(23.509090909090915), np.float64(20.66666666666667)], y: [np.float64(1.94545454545524), np.float64(11.02057613168725)], z: [np.float64(18.454545454545453), np.float64(18.995884773662553)]

Conexion: x: [np.float64(23.509090909090915), np.float64(30.347169811320754)], y: [np.float64(1.9454545454545524), np.float64(14.981132075471692)], z: [np.float64(18.454545454545453), np.float64(41.16.596226415094363)]

Conexion: x: [np.float64(52.08764940239044), np.float64(53.268085106382976)], y: [np.float64(38.0), np.float64(31.268085106382983)], z: [np.float64(6.749003984063748), np.float64(1.812765957446814)]

Conexion: x: [np.float64(52.08764940239044), np.float64(47.45019920318725)], y: [np.float64(38.0), np.float64(39.394422310756966)], z: [np.float64(6.749003984063748), np.float64(1.0039840637450226)]

Conexion: x: [np.float64(51.266129032258064), np.float64(53.268085106382976)], y: [np.float64(25.33870967741936), np.float64(31.268085106382983)], z: [np.float64(8.193548387096769), np.float64(1.812765957446814)]

Conexion: x: [np.float64(51.266129032258064), np.float64(53.11372549019608)], y: [np.float64(25.33870967741936), np.float64(13.858823529411751)], z: [np.float64(8.193548387096769), np.float64(11.788235294117648)]

Conexion: x: [np.float64(42.02469135802469), np.float64(40.45454545454545)], y: [np.float64(41.30864197530863), np.float64(50.09090909090909)], z: [np.float64(10.592592592592595), np.float64(11.780303030303031)]

Conexion: x: [np.float64(44.743494423791816), np.float64(48.49557522123894)], y: [np.float64(32.37918215613382), np.float64(29.274336283185846)], z: [np.float64(18.84014869888476), np.float64(7.318584070796462)]

Conexion: x: [np.float64(44.743494423791816), np.float64(45.47619047619048)], y: [np.float64(32.37918215613382), np.float64(34.12380952380951)], z: [np.float64(18.84014869888476), np.float64(7.580952380952382)]

Conexion: x: [np.float64(44.743494423791816), np.float64(45.769230769230774)], y: [np.float64(32.37918215613382), np.float64(27.01538461538462)], z: [np.float64(18.84014869888476), np.float64(24.830769230769235)]

Conexion: x: [np.float64(44.743494423791816), np.float64(48.376811594202906)], y: [np.float64(32.37918215613382), np.float64(17.775362318840592)], z: [np.float64(18.84014869888476), np.float64(26.76086956521739)]

Conexion: x: [np.float64(44.743494423791816), np.float64(42.03076923076924)], y: [np.float64(32.37918215613382), np.float64(33.9897435897436)], z: [np.float64(18.84014869888476), np.float64(26.266666666666666)]

Conexion: x: [np.float64(44.743494423791816), np.float64(41.559471365638764)], y: [np.float64(32.37918215613382), np.float64(40.255506607929505)], z: [np.float64(18.84014869888476), np.float64(25.066079295154182)]

Conexion: x: [np.float64(44.743494423791816), np.float64(48.1930501930502)], y: [np.float64(32.37918215613382), np.float64(17.054393305439334)], z: [np.float64(18.84014869888476), np.float64(47.84937238493724)]

Conexion: x: [np.float64(49.666666666666666), np.float64(48.49557522123894)], y: [np.float64(21.724999999999999), np.float64(29.274336283185846)], z: [np.float64(17.950000000000003), np.float64(7.318584070796462)]

Conexion: x: [np.float64(49.666666666666666), np.float64(46.77735849056603)], y: [np.float64(21.724999999999999), np.float64(29.274336283185846)], z: [np.float64(17.950000000000003), np.float64(7.318584070796462)]

49999999999994], np.float64(19.871698113207543)], z: [np.float64(17.950000000000003), np.float64(7.1622641509434)]

Conexion: x: [np.float64(-49.66666666666666), np.float64(-45.769230769230774)], y: [np.float64(21.724999999999994), np.float64(27.01538461538462)], z: [np.float64(17.950000000000003), np.float64(24.830769230769235)]

Conexion: x: [np.float64(-49.66666666666666), np.float64(-48.376811594202906)], y: [np.float64(21.724999999999994), np.float64(17.775362318840592)], z: [np.float64(17.950000000000003), np.float64(26.76086956521739)]

Conexion: x: [np.float64(-48.49557522123894), np.float64(-46.27755102040817)], y: [np.float64(29.274336283185846), np.float64(25.387755102040813)], z: [np.float64(17.318584070796462), np.float64(1.787755102040819)]

Conexion: x: [np.float64(-48.49557522123894), np.float64(-45.47619047619048)], y: [np.float64(29.274336283185846), np.float64(34.12380952380951)], z: [np.float64(17.318584070796462), np.float64(24.830769230769235)]

Conexion: x: [np.float64(-48.49557522123894), np.float64(-46.77735849056603)], y: [np.float64(29.274336283185846), np.float64(19.871698113207543)], z: [np.float64(17.318584070796462), np.float64(7.1622641509434)]

Conexion: x: [np.float64(-48.49557522123894), np.float64(-48.376811594202906)], y: [np.float64(29.274336283185846), np.float64(17.775362318840592)], z: [np.float64(17.318584070796462), np.float64(26.76086956521739)]

Conexion: x: [np.float64(-46.27755102040817), np.float64(-45.47619047619048)], y: [np.float64(25.387755102040813), np.float64(34.12380952380951)], z: [np.float64(17.7755102040819), np.float64(7.580952380952382)]

Conexion: x: [np.float64(-46.27755102040817), np.float64(-46.77735849056603)], y: [np.float64(25.387755102040813), np.float64(19.871698113207543)], z: [np.float64(1.787755102040819), np.float64(7.1622641509434)]

Conexion: x: [np.float64(-46.27755102040817), np.float64(-31.52380952380952)], y: [np.float64(25.387755102040813), np.float64(23.3113553113553)], z: [np.float64(1.787755102040819), np.float64(1.3846153846153868)]

Conexion: x: [np.float64(-46.27755102040817), np.float64(37.201581027667984)], y: [np.float64(25.387755102040813), np.float64(23.87351778656125)], z: [np.float64(1.787755102040819), np.float64(0.1976284584980357)]

Conexion: x: [np.float64(-40.7032967032967), np.float64(-45.47619047619048)], y: [np.float64(40.03630036630044), np.float64(34.12380952380951)], z: [np.float64(10.065934065934073), np.float64(7.580952380952382)]

Conexion: x: [np.float64(-40.7032967032967), np.float64(-43.36603773584906)], y: [np.float64(40.03630036630044), np.float64(39.418867924528314)], z: [np.float64(10.065934065934073), np.float64(1.0339622641509436)]

Conexion: x: [np.float64(-40.7032967032967), np.float64(-39.7313428358208)], y: [np.float64(40.03630036630044), np.float64(49.79850746268656)], z: [np.float64(10.065934065934073), np.float64(4.291044776119406)]

Conexion: x: [np.float64(-40.7032967032967), np.float64(-39.764192139737986)], y: [np.float64(40.03630036630044), np.float64(42.681222707423586)], z: [np.float64(10.065934065934073), np.float64(19.871698113207543)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-30.687074829931973)], y: [np.float64(17.775362318840592), np.float64(-61.74829931972789)], z: [np.float64(26.76086956521739), np.float64(5.3.25170668027211)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-48.1930501938502)], y: [np.float64(17.775362318840592), np.float64(7.0888030888030755)], z: [np.float64(26.76086956521739), np.float64(32.3.08880308880305)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-41.230158730158735)], y: [np.float64(17.775362318840592), np.float64(0.128571428571388)], z: [np.float64(26.76086956521739), np.float64(4.8.58730158730158)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-4.55230125523012)], y: [np.float64(17.775362318840592), np.float64(17.054393305439334)], z: [np.float64(26.76086956521739), np.float64(47.8.4937238493724)]

Conexion: x: [np.float64(-43.36603773584906), np.float64(-39.7313428358208)], y: [np.float64(39.418867924528314), np.float64(49.79850746268656)], z: [np.float64(10.065934065934073), np.float64(4.291044776119406)]

Conexion: x: [np.float64(53.268085106382976), np.float64(53.03414634146341)], y: [np.float64(31.268085106382983), np.float64(28.663414634146335)], z: [np.float64(1.812765957446814), np.float64(9.756097560975604)]

Conexion: x: [np.float64(53.268085106382976), np.float64(47.45019920318725)], y: [np.float64(31.268085106382983), np.float64(39.394422310756966)], z: [np.float64(1.812765957446814), np.float64(1.0039840637450226)]

Conexion: x: [np.float64(53.268085106382976), np.float64(54.24545454545454)], y: [np.float64(31.268085106382983), np.float64(22.681818181818187)], z: [np.float64(1.812765957446814), np.float64(3.654545454545456)]

Conexion: x: [np.float64(47.55905511811024), np.float64(50.4)], y: [np.float64(31.38582677165354), np.float64(25.98222222222222)], z: [np.float64(22.464566929133852), np.float64(15.466666666666669)]

Conexion: x: [np.float64(47.55905511811024), np.float64(46.693548387096776)], y: [np.float64(31.38582677165354), np.float64(24.64516129032259)], z: [np.float64(22.464566929133852), np.float64(26.540322580645167)]

Conexion: x: [np.float64(47.55905511811024), np.float64(41.559471365638764)], y: [np.float64(31.38582677165354), np.float64(40.2550667929505)], z: [np.float64(22.464566929133852), np.float64(25.06079295154182)]

Conexion: x: [np.float64(47.55905511811024), np.float64(43.905138339920946)], y: [np.float64(31.38582677165354), np.float64(37.49407114624506)], z: [np.float64(22.464566929133852), np.float64(19.501976284584984)]

Conexion: x: [np.float64(47.55905511811024), np.float64(44.69285714285714)], y: [np.float64(31.38582677165354), np.float64(29.19285714285715)], z: [np.float64(22.464566929133852), np.float64(33.778571428571425)]

Conexion: x: [np.float64(53.03414634146341), np.float64(48.74308300395257)], y: [np.float64(28.663414634146335), np.float64(36.4031620553597)], z: [np.float64(9.756097560975604), np.float64(10.948616600790515)]

Conexion: x: [np.float64(53.03414634146341), np.float64(54.24545454545454)], y: [np.float64(28.663414634146335), np.float64(22.681818181818187)], z: [np.float64(9.756097560975604), np.float64(3.654545454545456)]

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Conexion: x: [np.float64(-45.47619047619048), np.float64(-43.36603773584906)], y: [np.float64(34.12380952380951), np.float64(39.418867924528314)], z: [np.float64(7.580952380952382), np.float64(1.0339622641509436)]

Conexion: x: [np.float64(-46.77735849056603), np.float64(-31.52380952380952)], y: [np.float64(19.871698113207543), np.float64(23.3113553113553)], z: [np.float64(7.1622641509434), np.float64(1.3846153846153868)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-48.376811594202906)], y: [np.float64(27.01538461538462), np.float64(17.775362318840592)], z: [np.float64(24.830769230769235), np.float64(26.76086956521739)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(47.55905511811024)], y: [np.float64(27.01538461538462), np.float64(31.38582677165354)], z: [np.float64(24.830769230769235), np.float64(22.465566929133852)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-42.03076923076924)], y: [np.float64(27.01538461538462), np.float64(33.9897435897436)], z: [np.float64(24.830769230769235), np.float64(26.266666666666666)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-31.52380952380952)], y: [np.float64(27.01538461538462), np.float64(23.3113553113553)], z: [np.float64(24.830769230769235), np.float64(1.3846153846153868)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-37.10914454277287)], y: [np.float64(27.01538461538462), np.float64(-55.687315634218294)], z: [np.float64(24.830769230769235), np.float64(5.2.607669616519175)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-30.609970674486803)], y: [np.float64(27.01538461538462), np.float64(-64.96774193548387)], z: [np.float64(24.830769230769235), np.float64(4.3.313782991202345)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-30.687074829931973)], y: [np.float64(27.01538461538462), np.float64(-61.74829931972789)], z: [np.float64(24.830769230769235), np.float64(5.3.25170668027211)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-42.82527881040892)], y: [np.float64(27.01538461538462), np.float64(6.1189591207806688)], z: [np.float64(24.830769230769235), np.float64(42.4.0148698884758)]

Conexion: x: [np.float64(-45.769230769230774), np.float64(-4.55230125523012)], y: [np.float64(27.01538461538462), np.float64(17.054393305439334)], z: [np.float64(24.830769230769235), np.float64(47.8.4937238493724)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-5.677419354838705)], y: [np.float64(17.775362318840592), np.float64(26.66129032258064)], z: [np.float64(26.76086956521739), np.float64(40.3.14516129032256)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-37.10914454277287)], y: [np.float64(17.775362318840592), np.float64(-55.687315634218294)], z: [np.float64(26.76086956521739), np.float64(15.2.607669616519175)]

Conexion: x: [np.float64(-48.376811594202906), np.float64(-30.609970674486803)], y: [np.float64(17.775362318840592), np.float64(-64.96774193548387)], z: [np.float64(26.76086956521739), np.float64(4.3.313782991202345)]

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Conexion: x: [np.float64(53.03414634146341), np.float64(50.4)], y: [np.float64(28.663414634146335), np.float64(25.98222222222222)], z: [np.float64(9.756097560975604), np.float64(15.466666666666669)]

Conexion: x: [np.float64(48.74308300395257), np.float64(47.45019920318725)], y: [np.float64(36.4031620553597), np.float64(39.394422310756966)], z: [np.float64(10.948616600790515), np.float64(1.0039840637450226)]

Conexion: x: [np.float64(48.74308300395257), np.float64(43.905138339920946)], y: [np.float64(36.4031620553597), np.float64(37.49407114624506)], z: [np.float64(10.948616600790515), np.float64(19.501976284584984)]

Conexion: x: [np.float64(50.44615384615385), np.float64(46.693548387096776)], y: [np.float64(18.946153846153834), np.float64(24.64516129032259)], z: [np.float64(21.34615384615384), np.float64(26.540322580645167)]

Conexion: x: [np.float64(47.45019920318725), np.float64(44.63598326359833)], y: [np.float64(39.394422310756966), np.float64(48.184100418410054)], z: [np.float64(1.0039840637450226), np.float64(4.075313807531387)]

Conexion: x: [np.float64(46.693548387096776), np.float64(44.69285714285714)], y: [np.float64(24.64516129032259), np.float64(29.19285714285715)], z: [np.float64(26.540322580645167), np.float64(33.778571428571425)]

Conexion: x: [np.float64(-5.710743801652896), np.float64(-4.067510548523202)], y: [np.float64(39.3388429752066), np.float64(54.751054852320664)], z: [np.float64(-10.454545454545453), np.float64(-10.270042194092824)]

Conexion: x: [np.float64(-5.710743801652896), np.float64(7.964912280701753)], y: [np.float64(39.3388429752066), np.float64(37.543859649122794)], z: [np.float64(-10.454545454545453), np.float64(-9.557894736842101)]

Conexion: x: [np.float64(-5.710743801652896), np.float64(6.428070175438592)], y: [np.float64(39.3388429752066), np.float64(50.7719298245614)], z: [np.float64(-10.454545454545453), np.float64(-8.308771929824559)]

Conexion: x: [np.float64(-5.710743801652896), np.float64(-4.392452830188674)], y: [np.float64(39.3388429752066), np.float64(49.16981132075472)], z: [np.float64(-10.454545454545453), np.float64(-17.932075471698113)]

Conexion: x: [np.float64(-5.710743801652896), np.float64(-6.273127753303967)], y: [np.float64(39.3388429752066), np.float64(34.70484581497797)], z: [np.float64(-10.454545454545453), np.float64(-5.092511013215855)]

Conexion: x: [np.float64(-5.710743801652896), np.float64(-4.538745387453872)], y: [np.float64(39.3388429752066), np.float64(46.53874538745387)], z: [np.float64(-10.454545454545453), np.float64(3.06273062730628)]

Conexion: x: [np.float64(-6.516666666666666), np.float64(-4.067510548523202)], y: [np.float64(63.599999999999994), np.float64(54.751054852320664)], z: [np.float64(-5.849999999999994), np.float64(61.0.270042194092824)]

Conexion: x: [np.float64(-6.516666666666666), np.float64(9.104895104895107)], y: [np.float64(63.599999999999994), np.float64(62.86013986013987)], z: [np.float64(-5.849999999999994), np.float64(-7.68531468531468)]

Conexion: x: [np.float64(-6.516666666666666), np.float64(-8.62139252330097)], y: [np.float64(63.599999999999994), np.float64(62.86013986013987)], z: [np.float64(-5.849999999999994), np.float64(61.0.270042194092824)]

9999999999994], np.float64(64.95145631067962)], z: [np.float64(-5.849999999999994), np.float64(5.313 915857605181)]
Conexion: x: [np.float64(-4.067510548523202), np.float64(6.428070175438592)], y: [np.float64(54.751 054852320664), np.float64(50.7719298245614)], z: [np.float64(-10.270042194092824), np.float64(-8.30 8771929824559)]
Conexion: x: [np.float64(-4.067510548523202), np.float64(-4.392452830188674)], y: [np.float64(54.75 1054852320664), np.float64(49.16981132075472)], z: [np.float64(-10.270042194092824), np.float64(-1 7.932075471698113)]
Conexion: x: [np.float64(7.964912280701753), np.float64(6.428070175438592)], y: [np.float64(37.5438 59649122794), np.float64(50.7719298245614)], z: [np.float64(-9.557894736842101), np.float64(-8.3087 71929824559)]
Conexion: x: [np.float64(7.964912280701753), np.float64(7.361216730038024)], y: [np.float64(37.5438 59649122794), np.float64(31.787072243346017)], z: [np.float64(-9.557894736842101), np.float64(-18.2 35741444866918)]
Conexion: x: [np.float64(7.964912280701753), np.float64(-6.273127753303967)], y: [np.float64(37.543 859649122794), np.float64(34.70484581497797)], z: [np.float64(-9.557894736842101), np.float64(-5.09 2511013215855)]
Conexion: x: [np.float64(9.104895104895107), np.float64(6.428070175438592)], y: [np.float64(62.8601 3986013987), np.float64(50.7719298245614)], z: [np.float64(-7.68531468531468), np.float64(-8.308771 929824559)]
Conexion: x: [np.float64(9.104895104895107), np.float64(9.93548870967744)], y: [np.float64(62.8601 3986013987), np.float64(66.14746543778801)], z: [np.float64(-7.68531468531468), np.float64(6.516129 032258064)]
Conexion: x: [np.float64(9.104895104895107), np.float64(14.86440677966101)], y: [np.float64(62.8601 3986013987), np.float64(57.26271186440678)], z: [np.float64(-7.68531468531468), np.float64(-15.5762 71186440678)]
Conexion: x: [np.float64(6.428070175438592), np.float64(9.39776951672863)], y: [np.float64(50.77192 98245614), np.float64(52.98141263940519)], z: [np.float64(-8.308771929824559), np.float64(3.1524163 568773247)]
Conexion: x: [np.float64(6.428070175438592), np.float64(6.67619047619047)], y: [np.float64(50.77192 98245614), np.float64(50.9847619047619)], z: [np.float64(-8.308771929824559), np.float64(-18.742857 14285714)]
Conexion: x: [np.float64(-36.04958677685951), np.float64(-30.368852459016395)], y: [np.float64(51.1 98347107438025), np.float64(49.81147540983608)], z: [np.float64(14.305785123966942), np.float64(20. 05737704918033)]
Conexion: x: [np.float64(-36.04958677685951), np.float64(-39.73134328358208)], y: [np.float64(51.19 8347107438025), np.float64(49.79850746268656)], z: [np.float64(14.305785123966942), np.float64(4.29 1044776119406)]
Conexion: x: [np.float64(-36.04958677685951), np.float64(-30.290540540540547)], y: [np.float64(51.1 98347107438025), np.float64(55.81756756756758)], z: [np.float64(14.305785123966942), np.float64(8.1 55405405405403)]
Conexion: x: [np.float64(-36.04958677685951), np.float64(-39.764192139737986)], y: [np.float64(51.1 98347107438025), np.float64(42.681222707423586)], z: [np.float64(14.305785123966942), np.float64(1

9.50218340611353)]
Conexion: x: [np.float64(-36.04958677685951), np.float64(37.922413793103445)], y: [np.float64(51.19 8347107438025), np.float64(51.896551724137936)], z: [np.float64(14.305785123966942), np.float64(13. 491379310344826)]
Conexion: x: [np.float64(-33.28286852589642), np.float64(-36.453531598513024)], y: [np.float64(40.0 8764940239044), np.float64(34.052044609665415)], z: [np.float64(26.916334661354583), np.float64(34. 43866171003718)]
Conexion: x: [np.float64(-33.28286852589642), np.float64(-29.179487179487182)], y: [np.float64(40.0 8764940239044), np.float64(39.863247863247864)], z: [np.float64(42.93584905660377), np.float64(34. 7094017094017)]
Conexion: x: [np.float64(-33.28286852589642), np.float64(-39.764192139737986)], y: [np.float64(40.0 8764940239044), np.float64(42.681222707423586)], z: [np.float64(26.916334661354583), np.float64(19. 50218340611353)]
Conexion: x: [np.float64(-39.78867924528302), np.float64(-44.77902621722848)], y: [np.float64(15.93 962264150943), np.float64(17.30337086516865)], z: [np.float64(42.93584905660377), np.float64(37.14 606741573034)]
Conexion: x: [np.float64(-39.78867924528302), np.float64(-39.547008547008545)], y: [np.float64(15.9 3962264150943), np.float64(24.24786324786325)], z: [np.float64(42.93584905660377), np.float64(40.32 478632478633)]
Conexion: x: [np.float64(-39.78867924528302), np.float64(-42.82527881040892)], y: [np.float64(15.93 962264150943), np.float64(6.118959107806688)], z: [np.float64(42.93584905660377), np.float64(42.401 48698884758)]
Conexion: x: [np.float64(-33.24187725631769), np.float64(-39.547008547008545)], y: [np.float64(26.6 7148014440434), np.float64(24.24786324786325)], z: [np.float64(43.96389891696751), np.float64(40.32 478632478633)]
Conexion: x: [np.float64(-33.24187725631769), np.float64(-25.664429530201346)], y: [np.float64(26.6 7148014440434), np.float64(28.731543624161077)], z: [np.float64(43.96389891696751), np.float64(47.9 5302013422818)]
Conexion: x: [np.float64(-33.24187725631769), np.float64(-31.78867924528302)], y: [np.float64(26.67 148014440434), np.float64(17.260373758490558)], z: [np.float64(43.96389891696751), np.float64(51.13 962264150943)]
Conexion: x: [np.float64(-30.368852459016395), np.float64(-30.290540540540547)], y: [np.float64(49. 81147540983608), np.float64(55.81756756756758)], z: [np.float64(20.05737704918033), np.float64(8.15 5405405405403)]
Conexion: x: [np.float64(-30.368852459016395), np.float64(-39.764192139737986)], y: [np.float64(49. 81147540983608), np.float64(42.681222707423586)], z: [np.float64(20.05737704918033), np.float64(19. 50218340611353)]
Conexion: x: [np.float64(-30.368852459016395), np.float64(-20.75)], y: [np.float64(49.8114754098360 8), np.float64(55.4375)], z: [np.float64(20.05737704918033), np.float64(24.546875)]
Conexion: x: [np.float64(-25.42168674698796), np.float64(-25.664429530201346)], y: [np.float64(15.7 99196787148588), np.float64(28.731543624161077)], z: [np.float64(43.96389891696751), np.float64(47. 95302013422818)]
Conexion: x: [np.float64(-25.42168674698796), np.float64(-31.78867924528302)], y: [np.float64(15.79

9196787148588), np.float64(17.260377358490558)], z: [np.float64(54.85140562248995), np.float64(51.1 3962264150943)]
Conexion: x: [np.float64(-25.42168674698796), np.float64(-18.87285223367698)], y: [np.float64(15.79 9196787148588), np.float64(17.573883161512015)], z: [np.float64(54.85140562248995), np.float64(57.7 1821305841925)]
Conexion: x: [np.float64(-35.574297188755025), np.float64(-28.157706093189958)], y: [np.float64(7.4 53815261044184), np.float64(3.5268817204301115)], z: [np.float64(51.31726907630522), np.float64(57. 082437275985654)]
Conexion: x: [np.float64(-35.574297188755025), np.float64(-31.78867924528302)], y: [np.float64(7.45 3815261044184), np.float64(17.260377358490558)], z: [np.float64(51.31726907630522), np.float64(51.1 3962264150943)]
Conexion: x: [np.float64(-35.574297188755025), np.float64(-42.82527881040892)], y: [np.float64(7.45 3815261044184), np.float64(6.118959107806688)], z: [np.float64(51.31726907630522), np.float64(42.40 148698884758)]
Conexion: x: [np.float64(-35.574297188755025), np.float64(-34.39269406392694)], y: [np.float64(7.45 3815261044184), np.float64(-3.0502283108502277)], z: [np.float64(51.31726907630522), np.float64(53.8 5388127853881)]
Conexion: x: [np.float64(-35.574297188755025), np.float64(-41.230158730158735)], y: [np.float64(7.4 53815261044184), np.float64(0.1428571428571388)], z: [np.float64(51.31726907630522), np.float64(48. 58730158730158)]
Conexion: x: [np.float64(-44.77902621722848), np.float64(-42.82527881040892)], y: [np.float64(17.30 3370786516865), np.float64(6.118959107806688)], z: [np.float64(37.14606741573034), np.float64(42.40 148698884758)]
Conexion: x: [np.float64(-44.77902621722848), np.float64(-48.1930519305052)], y: [np.float64(17.303 370786516865), np.float64(7.0888030888030755)], z: [np.float64(37.14606741573034), np.float64(32.30 8880308880305)]
Conexion: x: [np.float64(-36.453531598513024), np.float64(-39.547008547008545)], y: [np.float64(34. 052044609665415), np.float64(24.24786324786325)], z: [np.float64(34.43866171003718), np.float64(40. 32478632478633)]
Conexion: x: [np.float64(-36.453531598513024), np.float64(-42.03076923076924)], y: [np.float64(34.0 52044609665415), np.float64(33.9897435897436)], z: [np.float64(34.43866171003718), np.float64(26.26 6666666666666)]
Conexion: x: [np.float64(-36.453531598513024), np.float64(-29.179487179487182)], y: [np.float64(34. 052044609665415), np.float64(39.863247863247864)], z: [np.float64(34.43866171003718), np.float64(3 4.7094017094017)]
Conexion: x: [np.float64(-36.453531598513024), np.float64(37.34615384615385)], y: [np.float64(34.05 2044609665415), np.float64(36.400000000000006)], z: [np.float64(34.43866171003718), np.float64(35.4 7692307692307)]
Conexion: x: [np.float64(-42.03076923076924), np.float64(-39.764192139737986)], y: [np.float64(33.9 897435897436), np.float64(42.681222707423586)], z: [np.float64(26.266666666666666), np.float64(19.5 0218340611353)]
Conexion: x: [np.float64(-42.03076923076924), np.float64(43.905138339920946)], y: [np.float64(33.98 97435897436), np.float64(37.49407114624506)], z: [np.float64(26.266666666666666), np.float64(19.501

Conexion: x: [np.float64(-28.157706093189958), np.float64(-30.41493759336098)], y: [np.float64(3.5268817204301115), np.float64(-9.684647302904565)], z: [np.float64(57.082437275985654), np.float64(60.63070539419087)]

Conexion: x: [np.float64(-28.157706093189958), np.float64(-2.606837606837601)], y: [np.float64(3.5268817204301115), np.float64(12.0)], z: [np.float64(57.082437275985654), np.float64(55.27350427350427)]

Conexion: x: [np.float64(-28.157706093189958), np.float64(-4.55230125523012)], y: [np.float64(3.5268817204301115), np.float64(17.054393305493934)], z: [np.float64(57.082437275985654), np.float64(47.84937238493724)]

Conexion: x: [np.float64(-24.02380952380952), np.float64(-29.179487179487182)], y: [np.float64(47.428571428571416), np.float64(39.863247863247864)], z: [np.float64(28.626984126984127), np.float64(43.7094017094017)]

Conexion: x: [np.float64(-24.02380952380952), np.float64(-20.75)], y: [np.float64(47.428571428571416), np.float64(55.4375)], z: [np.float64(28.626984126984127), np.float64(24.546875)]

Conexion: x: [np.float64(-24.02380952380952), np.float64(-22.328859060402678)], y: [np.float64(47.428571428571416), np.float64(40.05369127516778)], z: [np.float64(28.626984126984127), np.float64(37.50335570469798)]

Conexion: x: [np.float64(-29.179487179487182), np.float64(-22.328859060402678)], y: [np.float64(39.863247863247864), np.float64(40.05369127516778)], z: [np.float64(34.7094017094017), np.float64(37.50335570469798)]

Conexion: x: [np.float64(-30.290540540540547), np.float64(34.25675675675676)], y: [np.float64(55.81756756756758), np.float64(55.6959459454954)], z: [np.float64(8.155405405405403), np.float64(3.202702702709)]

Conexion: x: [np.float64(-30.290540540540547), np.float64(-23.109489051094897)], y: [np.float64(55.81756756756758), np.float64(60.277372262773724)], z: [np.float64(8.155405405405403), np.float64(2.9562043795620383)]

Conexion: x: [np.float64(-25.12663755458516), np.float64(-33.442786069651746)], y: [np.float64(54.13100436681222), np.float64(54.06965174129354)], z: [np.float64(-11.493449781659386), np.float64(-10.45771144278607)]

Conexion: x: [np.float64(-25.12663755458516), np.float64(24.46666666666667)], y: [np.float64(54.13100436681222), np.float64(57.07499999999999)], z: [np.float64(-11.493449781659386), np.float64(-13.549999999999997)]

Conexion: x: [np.float64(-25.12663755458516), np.float64(-17.58119658119658)], y: [np.float64(54.13100436681222), np.float64(45.4957264957265)], z: [np.float64(-11.493449781659386), np.float64(-15.871794871794869)]

Conexion: x: [np.float64(-25.12663755458516), np.float64(-21.028571428571425)], y: [np.float64(54.13100436681222), np.float64(61.428571428571416)], z: [np.float64(-11.493449781659386), np.float64(-6.383673469387759)]

Conexion: x: [np.float64(-40.7913043478261), np.float64(-33.442786069651746)], y: [np.float64(50.24347826086955), np.float64(54.06965174129354)], z: [np.float64(-5.304347826086953), np.float64(-10.45771144278607)]

Conexion: x: [np.float64(-40.7913043478261), np.float64(38.65853658536585)], y: [np.float64(50.24347826086955), np.float64(55.20325203252034)], z: [np.float64(-5.304347826086953), np.float64(-6.0406

50406504071)]

Conexion: x: [np.float64(-24.421052631578945), np.float64(27.64528301886793)], y: [np.float64(38.67543859649123), np.float64(43.55471698113209)], z: [np.float64(-16.675438596491226), np.float64(-16.89056603773585)]

Conexion: x: [np.float64(-24.421052631578945), np.float64(-14.754448398576514)], y: [np.float64(38.67543859649123), np.float64(25.964412811387888)], z: [np.float64(-16.675438596491226), np.float64(-21.110320284697508)]

Conexion: x: [np.float64(-24.421052631578945), np.float64(-17.58119658119658)], y: [np.float64(38.67543859649123), np.float64(45.4957264957265)], z: [np.float64(-16.675438596491226), np.float64(-15.871794871794869)]

Conexion: x: [np.float64(-33.442786069651746), np.float64(-21.028571428571425)], y: [np.float64(54.06965174129354), np.float64(61.428571428571416)], z: [np.float64(-10.45771144278607), np.float64(-6.383673469387759)]

Conexion: x: [np.float64(24.46666666666667), np.float64(40.45454545454545)], y: [np.float64(57.07499999999999), np.float64(50.09090909090909)], z: [np.float64(-13.549999999999997), np.float64(-11.780303030303031)]

Conexion: x: [np.float64(24.46666666666667), np.float64(27.64528301886793)], y: [np.float64(57.07499999999999), np.float64(43.55471698113209)], z: [np.float64(-13.549999999999997), np.float64(-16.89056603773585)]

Conexion: x: [np.float64(24.46666666666667), np.float64(38.65853658536585)], y: [np.float64(57.07499999999999), np.float64(55.20325203252034)], z: [np.float64(-13.549999999999997), np.float64(-6.040650406504071)]

Conexion: x: [np.float64(24.46666666666667), np.float64(62.02371541501975)], y: [np.float64(57.07499999999999), np.float64(62.02371541501975)], z: [np.float64(-13.549999999999997), np.float64(-5.003952569169954)]

Conexion: x: [np.float64(24.46666666666667), np.float64(14.86440677966101)], y: [np.float64(57.07499999999999), np.float64(57.26271186440678)], z: [np.float64(-13.549999999999997), np.float64(-15.576271186440678)]

Conexion: x: [np.float64(40.45454545454545), np.float64(27.64528301886793)], y: [np.float64(50.09090909090909), np.float64(43.55471698113209)], z: [np.float64(-11.780303030303031), np.float64(-16.89056603773585)]

Conexion: x: [np.float64(40.45454545454545), np.float64(38.65853658536585)], y: [np.float64(50.09090909090909), np.float64(55.20325203252034)], z: [np.float64(-11.780303030303031), np.float64(-6.040650406504071)]

Conexion: x: [np.float64(27.64528301886793), np.float64(16.851405622489963)], y: [np.float64(43.55471698113209), np.float64(42.361445783132524)], z: [np.float64(-16.89056603773585), np.float64(-20.08032128514053)]

Conexion: x: [np.float64(38.65853658536585), np.float64(34.25675675675676)], y: [np.float64(55.20325203252034), np.float64(55.69594594594594)], z: [np.float64(-6.040650406504071), np.float64(3.202702702709)]

Conexion: x: [np.float64(38.65853658536585), np.float64(23.098814229249015)], y: [np.float64(55.20325203252034), np.float64(62.02371541501975)], z: [np.float64(-6.040650406504071), np.float64(-5.003952569169954)]

Conexion: x: [np.float64(37.65986394557823), np.float64(29.935275080906152)], y: [np.float64(20.768707482993193), np.float64(28.03236245954693)], z: [np.float64(46.455782312925166), np.float64(43.94822006472492)]

Conexion: x: [np.float64(37.65986394557823), np.float64(31.37179487179487)], y: [np.float64(20.768707482993193), np.float64(14.53205128205127)], z: [np.float64(46.455782312925166), np.float64(54.41025641025641)]

Conexion: x: [np.float64(37.65986394557823), np.float64(44.006472491909385)], y: [np.float64(20.768707482993193), np.float64(20.423365695728804)], z: [np.float64(46.455782312925166), np.float64(40.68608414239482)]

Conexion: x: [np.float64(28.19298245614035), np.float64(37.922413793103445)], y: [np.float64(53.99122807017545), np.float64(51.896551724137936)], z: [np.float64(20.94736842105263), np.float64(13.491379310344826)]

Conexion: x: [np.float64(28.19298245614035), np.float64(35.62595419847328)], y: [np.float64(53.99122807017545), np.float64(47.969465648854964)], z: [np.float64(20.94736842105263), np.float64(24.96132061068705)]

Conexion: x: [np.float64(28.19298245614035), np.float64(28.60683760683761)], y: [np.float64(53.99122807017545), np.float64(56.90598290598291)], z: [np.float64(20.94736842105263), np.float64(12.393162393162399)]

Conexion: x: [np.float64(37.34615384615385), np.float64(41.559471365638764)], y: [np.float64(36.400000000000006), np.float64(40.255506607929505)], z: [np.float64(35.47692307692307), np.float64(25.06079295154182)]

Conexion: x: [np.float64(37.34615384615385), np.float64(35.62595419847328)], y: [np.float64(36.400000000000006), np.float64(47.969465648854964)], z: [np.float64(35.47692307692307), np.float64(24.961832061068705)]

Conexion: x: [np.float64(37.34615384615385), np.float64(44.69285714285714)], y: [np.float64(36.400000000000006), np.float64(29.19285714285715)], z: [np.float64(35.47692307692307), np.float64(33.778571428571425)]

Conexion: x: [np.float64(37.34615384615385), np.float64(29.41935483870968)], y: [np.float64(36.400000000000006), np.float64(37.51971326164875)], z: [np.float64(35.47692307692307), np.float64(37.13978494623656)]

Conexion: x: [np.float64(29.935275080906152), np.float64(29.41935483870968)], y: [np.float64(28.03245954693), np.float64(37.51971326164875)], z: [np.float64(43.94822006472492), np.float64(37.13978494623656)]

Conexion: x: [np.float64(29.935275080906152), np.float64(23.755932203389833)], y: [np.float64(28.03236245954693), np.float64(25.349152542327877)], z: [np.float64(43.94822006472492), np.float64(51.01694915254237)]

Conexion: x: [np.float64(43.714285714285715), np.float64(38.040983066557376)], y: [np.float64(7.755102040816325), np.float64(8.663934246229503)], z: [np.float64(47.03673469387755), np.float64(52.70491803278688)]

Conexion: x: [np.float64(43.714285714285715), np.float64(38.86842105263158)], y: [np.float64(7.755102040816325), np.float64(-1.4868421052631646)], z: [np.float64(47.03673469387755), np.float64(58.26315789473685)]

Conexion: x: [np.float64(43.714285714285715), np.float64(44.006472491909385)], y: [np.float64(7.755

102040816325), np.float64(20.433656957928804)], z: [np.float64(47.03673469387755), np.float64(40.68608414239482)]

Conexion: x: [np.float64(43.714285714285715), np.float64(50.06896551724138)], y: [np.float64(7.755102040816325), np.float64(7.400000000000006)], z: [np.float64(47.03673469387755), np.float64(40.28965517241379)]

Conexion: x: [np.float64(44.73529411764706), np.float64(37.922413793103445)], y: [np.float64(45.25490196078431), np.float64(51.896551724137936)], z: [np.float64(11.607843137254903), np.float64(13.491379310344826)]

Conexion: x: [np.float64(44.73529411764706), np.float64(43.905138339920946)], y: [np.float64(45.25490196078431), np.float64(37.49407114624506)], z: [np.float64(11.607843137254903), np.float64(19.501976284584984)]

Conexion: x: [np.float64(44.73529411764706), np.float64(44.63598326359833)], y: [np.float64(45.25490196078431), np.float64(48.184100418410054)], z: [np.float64(11.607843137254903), np.float64(4.075313807531387)]

Conexion: x: [np.float64(37.922413793103445), np.float64(34.25675675675676)], y: [np.float64(51.896551724137936), np.float64(55.69594594594594)], z: [np.float64(13.491379310344826), np.float64(3.202702702702709)]

Conexion: x: [np.float64(37.922413793103445), np.float64(44.63598326359833)], y: [np.float64(51.896551724137936), np.float64(48.184100418410054)], z: [np.float64(13.491379310344826), np.float64(4.075313807531387)]

Conexion: x: [np.float64(37.922413793103445), np.float64(35.62595419847328)], y: [np.float64(51.896551724137936), np.float64(47.969465648854964)], z: [np.float64(13.491379310344826), np.float64(24.961832061068705)]

Conexion: x: [np.float64(37.922413793103445), np.float64(28.60683760683761)], y: [np.float64(51.896551724137936), np.float64(56.90598290598291)], z: [np.float64(13.491379310344826), np.float64(12.393162393162399)]

Conexion: x: [np.float64(41.559471365638764), np.float64(43.905138339920946)], y: [np.float64(40.25506607929505), np.float64(37.49407114624506)], z: [np.float64(25.066079295154182), np.float64(19.501976284584984)]

Conexion: x: [np.float64(41.559471365638764), np.float64(35.62595419847328)], y: [np.float64(40.25506607929505), np.float64(47.969465648854964)], z: [np.float64(25.066079295154182), np.float64(24.961832061068705)]

Conexion: x: [np.float64(41.559471365638764), np.float64(44.69285714285714)], y: [np.float64(40.25506607929505), np.float64(29.19285714285715)], z: [np.float64(25.066079295154182), np.float64(33.778571428571425)]

Conexion: x: [np.float64(41.559471365638764), np.float64(37.201581027667984)], y: [np.float64(40.25506607929505), np.float64(23.87351778656125)], z: [np.float64(25.066079295154182), np.float64(0.19762845849803057)]

Conexion: x: [np.float64(41.559471365638764), np.float64(-37.10914454277287)], y: [np.float64(40.25506607929505), np.float64(-55.68715634218294)], z: [np.float64(25.066079295154182), np.float64(52.607669616519175)]

Conexion: x: [np.float64(41.559471365638764), np.float64(-44.539923954372625)], y: [np.float64(40.25506607929505), np.float64(-51.28517110266159)], z: [np.float64(25.066079295154182), np.float64(4

6.7072243460077])

Conexion: x: [np.float64(41.559471365638764), np.float64(49.51931330472103)], y: [np.float64(40.255506607929505), np.float64(-41.01287553648069)], z: [np.float64(25.066079295154182), np.float64(47.45922746781116)]

Conexion: x: [np.float64(34.25675675675676), np.float64(44.63598326359833)], y: [np.float64(55.69594594594594), np.float64(48.184100418410054)], z: [np.float64(3.202702702702709), np.float64(4.075313807531387)]

Conexion: x: [np.float64(34.25675675675676), np.float64(22.66666666666667)], y: [np.float64(55.69594594594594), np.float64(62.300366300366306)], z: [np.float64(3.202702702702709), np.float64(2.7692307692307736)]

Conexion: x: [np.float64(34.25675675675676), np.float64(28.60683760683761)], y: [np.float64(55.69594594594594), np.float64(56.90598290598291)], z: [np.float64(3.202702702702709), np.float64(12.393162393162399)]

Conexion: x: [np.float64(27.484126984126988), np.float64(35.62595419847328)], y: [np.float64(46.293650793650784), np.float64(47.969465648854964)], z: [np.float64(29.626984126984127), np.float64(24.961832061068705)]

Conexion: x: [np.float64(27.484126984126988), np.float64(29.41935483870968)], y: [np.float64(46.293650793650784), np.float64(37.51971326164875)], z: [np.float64(29.626984126984127), np.float64(37.13978494623656)]

Conexion: x: [np.float64(27.484126984126988), np.float64(18.0)], y: [np.float64(46.293650793650784), np.float64(50.37894736842105)], z: [np.float64(29.626984126984127), np.float64(32.48421052631579)]

Conexion: x: [np.float64(31.37179487179487), np.float64(38.969162995594715)], y: [np.float64(14.53205128205127), np.float64(0.4581497797356917)], z: [np.float64(54.41025641025641), np.float64(51.048458149779734)]

Conexion: x: [np.float64(31.37179487179487), np.float64(38.040983606557376)], y: [np.float64(14.53205128205127), np.float64(8.663934426229503)], z: [np.float64(54.41025641025641), np.float64(52.70491803278688)]

Conexion: x: [np.float64(31.37179487179487), np.float64(20.455089820359277)], y: [np.float64(14.53205128205127), np.float64(15.940119760479035)], z: [np.float64(54.41025641025641), np.float64(56.221556886227546)]

Conexion: x: [np.float64(31.37179487179487), np.float64(26.25992779783394)], y: [np.float64(14.53205128205127), np.float64(4.490974729241884)], z: [np.float64(54.41025641025641), np.float64(60.361010830324915)]

Conexion: x: [np.float64(38.969162995594715), np.float64(38.86842105263158)], y: [np.float64(0.4581497797356917), np.float64(-1.4868421052631646)], z: [np.float64(51.048458149779734), np.float64(58.26315789473685)]

Conexion: x: [np.float64(38.969162995594715), np.float64(-24.69291338582677)], y: [np.float64(0.4581497797356917), np.float64(-6.2755905511810965)], z: [np.float64(51.048458149779734), np.float64(64.43307086614172)]

Conexion: x: [np.float64(38.969162995594715), np.float64(26.25992779783394)], y: [np.float64(0.4581497797356917), np.float64(4.490974729241884)], z: [np.float64(51.048458149779734), np.float64(60.361010830324915)]

8753894080997), np.float64(33.162561576354676)], z: [np.float64(47.88161993769471), np.float64(55.054187192118235)]

Conexion: x: [np.float64(-17.694704049844233), np.float64(-47.54751131221718)], y: [np.float64(33.98753894080997), np.float64(-61.809954751131215)], z: [np.float64(47.88161993769471), np.float64(25.366515837104075)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-21.5859649122807)], y: [np.float64(-6.2755905511810965), np.float64(2.89122807017543)], z: [np.float64(64.43307086614172), np.float64(62.7157894736842)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(26.25992779783394)], y: [np.float64(-6.2755905511810965), np.float64(4.490974729241884)], z: [np.float64(64.43307086614172), np.float64(60.361010830324915)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(29.247648902821318)], y: [np.float64(-6.2755905511810965), np.float64(-6.125391849529777)], z: [np.float64(64.43307086614172), np.float64(65.04075235109718)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-41.091445427728615)], y: [np.float64(-6.2755905511810965), np.float64(-44.525073746312685)], z: [np.float64(64.43307086614172), np.float64(52.14749262536873)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(45.80434782608695)], y: [np.float64(-6.2755905511810965), np.float64(-39.413043478260875)], z: [np.float64(64.43307086614172), np.float64(52.89130434782609)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-24.7870036101083)], y: [np.float64(-6.2755905511810965), np.float64(-64.05776173285199)], z: [np.float64(64.43307086614172), np.float64(56.72256317689532)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-19.24242424242425)], y: [np.float64(-6.2755905511810965), np.float64(-59.44696969696969)], z: [np.float64(64.43307086614172), np.float64(61.7651515151515)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(23.81967213114754)], y: [np.float64(-6.2755905511810965), np.float64(-58.040983606557376)], z: [np.float64(64.43307086614172), np.float64(67.172131147541)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(15.43529411764706)], y: [np.float64(-6.2755905511810965), np.float64(-59.521568627450975)], z: [np.float64(64.43307086614172), np.float64(68.03137254901961)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-21.0390625)], y: [np.float64(-6.2755905511810965), np.float64(-14.4375)], z: [np.float64(64.43307086614172), np.float64(71.53125)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-30.414937759336098)], y: [np.float64(-6.2755905511810965), np.float64(-9.684647302904565)], z: [np.float64(64.43307086614172), np.float64(60.63070539419087)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(36.86466165413534)], y: [np.float64(-6.2755905511810965), np.float64(-11.353383458646618)], z: [np.float64(64.43307086614172), np.float64(57.87969924812029)]

Conexion: x: [np.float64(-24.69291338582677), np.float64(-5.7659574468008514)], y: [np.float64(-6.2755905511810965), np.float64(-1.9716312056737593)], z: [np.float64(64.43307086614172), np.float64(60.99290780141844)]

Conexion: x: [np.float64(38.969162995594715), np.float64(-34.39269406392694)], y: [np.float64(0.4581497797356917), np.float64(-3.050228310502277)], z: [np.float64(51.048458149779734), np.float64(53.85388127853881)]

Conexion: x: [np.float64(38.969162995594715), np.float64(-41.230158730158735)], y: [np.float64(0.4581497797356917), np.float64(0.1428571428571388)], z: [np.float64(51.048458149779734), np.float64(44.858730158730158)]

Conexion: x: [np.float64(38.969162995594715), np.float64(36.86466165413534)], y: [np.float64(0.4581497797356917), np.float64(-11.353383458646618)], z: [np.float64(51.048458149779734), np.float64(57.87969924812029)]

Conexion: x: [np.float64(38.969162995594715), np.float64(48.9025974025974)], y: [np.float64(0.4581497797356917), np.float64(0.006493506493512768)], z: [np.float64(51.048458149779734), np.float64(44.461038961038966)]

Conexion: x: [np.float64(38.040983606557376), np.float64(38.86842105263158)], y: [np.float64(8.663934426229503), np.float64(-1.4868421052631646)], z: [np.float64(52.70491803278688), np.float64(58.26315789473685)]

Conexion: x: [np.float64(38.86842105263158), np.float64(-24.69291338582677)], y: [np.float64(-1.4868421052631646), np.float64(-6.2755905511810965)], z: [np.float64(58.26315789473685), np.float64(64.43307086614172)]

Conexion: x: [np.float64(38.86842105263158), np.float64(29.247648902821318)], y: [np.float64(-1.4868421052631646), np.float64(-6.125391849529777)], z: [np.float64(58.26315789473685), np.float64(65.04075235109718)]

Conexion: x: [np.float64(38.86842105263158), np.float64(-34.39269406392694)], y: [np.float64(-1.4868421052631646), np.float64(-3.050228310502277)], z: [np.float64(58.26315789473685), np.float64(53.85388127853881)]

Conexion: x: [np.float64(38.86842105263158), np.float64(-30.414937759336098)], y: [np.float64(-1.4868421052631646), np.float64(-9.684647302904565)], z: [np.float64(58.26315789473685), np.float64(64.433070539419087)]

Conexion: x: [np.float64(44.69285714285714), np.float64(44.006472491909385)], y: [np.float64(29.19215714285715), np.float64(20.433656957928804)], z: [np.float64(33.778571428571425), np.float64(40.6808414239482)]

Conexion: x: [np.float64(29.41935483870968), np.float64(22.98795180722891)], y: [np.float64(37.51971326164875), np.float64(37.95180722891567)], z: [np.float64(37.13978494623656), np.float64(37.437751004016064)]

Conexion: x: [np.float64(-17.694704049844233), np.float64(-22.328859060402678)], y: [np.float64(33.98753894080997), np.float64(40.05369127516778)], z: [np.float64(47.88161993769471), np.float64(37.50335570469798)]

Conexion: x: [np.float64(-17.694704049844233), np.float64(-14.533333333333331)], y: [np.float64(33.98753894080997), np.float64(25.15087719298245)], z: [np.float64(47.88161993769471), np.float64(52.8561403508772)]

Conexion: x: [np.float64(-17.694704049844233), np.float64(-14.63309352517986)], y: [np.float64(33.98753894080997), np.float64(42.66187050359713)], z: [np.float64(47.88161993769471), np.float64(41.53237410071942)]

Conexion: x: [np.float64(-17.694704049844233), np.float64(-6.384236453201964)], y: [np.float64(33.9

Conexion: x: [np.float64(-20.75), np.float64(-14.28358208955224)], y: [np.float64(55.4375), np.float64(51.05223880897015)], z: [np.float64(24.546875), np.float64(31.858208955223887)]

Conexion: x: [np.float64(-20.75), np.float64(-16.784482758620683)], y: [np.float64(55.4375), np.float64(60.90517241379311)], z: [np.float64(24.546875), np.float64(18.534482758620683)]

Conexion: x: [np.float64(-23.109489051094897), np.float64(-19.83333333333333)], y: [np.float64(60.277372262773724), np.float64(61.93333333333334)], z: [np.float64(2.9562043795620383), np.float64(10.583333333333329)]

Conexion: x: [np.float64(-23.109489051094897), np.float64(-21.028571428571425)], y: [np.float64(60.277372262773724), np.float64(61.428571428571416)], z: [np.float64(2.9562043795620383), np.float64(-6.383673469387759)]

Conexion: x: [np.float64(-22.328859060402678), np.float64(-14.63309352517986)], y: [np.float64(40.05369127516778), np.float64(42.66187050359713)], z: [np.float64(37.50335570469798), np.float64(41.53237410071942)]

Conexion: x: [np.float64(-21.5859649122807), np.float64(-15.42857142857143)], y: [np.float64(2.89122807017543), np.float64(5.462184873949582)], z: [np.float64(62.7157894736842), np.float64(63.14285714285714)]

Conexion: x: [np.float64(-14.533333333333331), np.float64(-18.87285223367698)], y: [np.float64(25.15087719298245), np.float64(17.573883161512015)], z: [np.float64(52.8561403508772), np.float64(57.71821305841925)]

Conexion: x: [np.float64(-14.28358208955224), np.float64(-14.63309352517986)], y: [np.float64(51.05223880897015), np.float64(42.66187050359713)], z: [np.float64(31.858208955223887), np.float64(41.53237410071942)]

Conexion: x: [np.float64(-14.28358208955224), np.float64(-4.168000000000006)], y: [np.float64(51.05223880897015), np.float64(52.752000000000001)], z: [np.float64(31.858208955223887), np.float64(38.270000000000006)]

Conexion: x: [np.float64(-15.42857142857143), np.float64(-6.9795918367346985)], y: [np.float64(5.462184873949582), np.float64(12.375510204081621)], z: [np.float64(63.14285714285714), np.float64(66.64489795918368)]

Conexion: x: [np.float64(-14.63309352517986), np.float64(-5.514893617021272)], y: [np.float64(42.66187050359713), np.float64(44.23829787234044)], z: [np.float64(41.53237410071942), np.float64(48.01702127659574)]

Conexion: x: [np.float64(-18.87285223367698), np.float64(-5.666666666666667)], y: [np.float64(17.573883161512015), np.float64(20.91397849462365)], z: [np.float64(57.71821305841925), np.float64(62.03225806451613)]

Conexion: x: [np.float64(-19.83333333333333), np.float64(-16.784482758620683)], y: [np.float64(61.93333333333334), np.float64(60.90517241379311)], z: [np.float64(10.583333333333329), np.float64(18.534482758620683)]

Conexion: x: [np.float64(-19.83333333333333), np.float64(-8.62135922330097)], y: [np.float64(61.93333333333334), np.float64(64.95145631067962)], z: [np.float64(10.583333333333329), np.float64(5.313915857605181)]

Conexion: x: [np.float64(27.05645161290323), np.float64(-20.66666666666667)], y: [np.float64(-0.5725806451612954), np.float64(-11.02057613168725)], z: [np.float64(-18.806451612903224), np.float64(-18.895884773662553)]

Conexion: x: [np.float64(27.05645161290323), np.float64(−30.347169811320754)], y: [np.float64(−0.5725806451612954), np.float64(−14.981132075471692)], z: [np.float64(−18.806451612903224), np.float64(−16.596226415094343)]

Conexion: x: [np.float64(27.05645161290323), np.float64(33.298507462686565)], y: [np.float64(−0.5725806451612954), np.float64(−13.082089552238813)], z: [np.float64(−18.806451612903224), np.float64(−16.253731343283583)]

Conexion: x: [np.float64(27.05645161290323), np.float64(26.61111111111114)], y: [np.float64(−0.5725806451612954), np.float64(−11.992063492063494)], z: [np.float64(−18.806451612903224), np.float64(−18.96825396825397)]

Conexion: x: [np.float64(27.05645161290323), np.float64(20.10434782608695)], y: [np.float64(−0.5725806451612954), np.float64(−2.486956521739131)], z: [np.float64(−18.806451612903224), np.float64(−2.3.930434782608693)]

Conexion: x: [np.float64(−4.168000000000006), np.float64(−5.514893617021272)], y: [np.float64(52.752000000000001), np.float64(44.23829787234044)], z: [np.float64(38.272000000000006), np.float64(48.01702127659574)]

Conexion: x: [np.float64(−4.168000000000006), np.float64(−6.871559633027516)], y: [np.float64(52.752000000000001), np.float64(60.871559633027516)], z: [np.float64(38.272000000000006), np.float64(27.449541284403665)]

Conexion: x: [np.float64(−4.168000000000006), np.float64(−1.898832684824896)], y: [np.float64(52.752000000000001), np.float64(46.70817120622567)], z: [np.float64(38.272000000000006), np.float64(31.10505836575875)]

Conexion: x: [np.float64(−4.168000000000006), np.float64(7.17647058823529)], y: [np.float64(52.752000000000001), np.float64(48.14117647058825)], z: [np.float64(38.272000000000006), np.float64(38.627450980392155)]

Conexion: x: [np.float64(−5.697560975609761), np.float64(−5.00946372239747)], y: [np.float64(61.05365836585374), np.float64(50.466876971608826)], z: [np.float64(18.643902439024387), np.float64(19.671924290220815)]

Conexion: x: [np.float64(−5.697560975609761), np.float64(−6.871559633027516)], y: [np.float64(61.05365836585374), np.float64(60.871559633027516)], z: [np.float64(18.643902439024387), np.float64(27.449541284403665)]

Conexion: x: [np.float64(−5.697560975609761), np.float64(−5.096989966555185)], y: [np.float64(61.05365836585374), np.float64(57.39130434782609)], z: [np.float64(18.643902439024387), np.float64(7.404682274247492)]

Conexion: x: [np.float64(−5.697560975609761), np.float64(7.117647058823536)], y: [np.float64(61.05365836585374), np.float64(57.448529411764696)], z: [np.float64(18.643902439024387), np.float64(15.742647058823536)]

Conexion: x: [np.float64(−6.384236453201964), np.float64(−2.5479452054794507)], y: [np.float64(33.162561576354676), np.float64(28.520547945205493)], z: [np.float64(55.054187192118235), np.float64(53.0)]

Conexion: x: [np.float64(−6.384236453201964), np.float64(−5.514893617021272)], y: [np.float64(33.162561576354676), np.float64(44.23829787234044)], z: [np.float64(55.054187192118235), np.float64(48.01702127659574)]

Conexion: x: [np.float64(−5.00946372239747), np.float64(−6.871559633027516)], y: [np.float64(50.466

876971608826)], np.float64(60.871559633027516)], z: [np.float64(19.671924290220815), np.float64(27.449541284403665)]

Conexion: x: [np.float64(−5.00946372239747), np.float64(−5.096989966555185)], y: [np.float64(50.466876971608826), np.float64(57.39130434782609)], z: [np.float64(19.671924290220815), np.float64(7.404682274247492)]

Conexion: x: [np.float64(−5.00946372239747), np.float64(−1.898832684824896)], y: [np.float64(50.466876971608826), np.float64(46.70817120622567)], z: [np.float64(19.671924290220815), np.float64(31.10505836575875)]

Conexion: x: [np.float64(−5.00946372239747), np.float64(7.117647058823536)], y: [np.float64(50.466876971608826), np.float64(57.448529411764696)], z: [np.float64(19.671924290220815), np.float64(15.742647058823536)]

Conexion: x: [np.float64(−5.00946372239747), np.float64(−3.418604651162795)], y: [np.float64(50.466876971608826), np.float64(39.92248062015503)], z: [np.float64(19.671924290220815), np.float64(10.170542635658919)]

Conexion: x: [np.float64(−5.677419354838705), np.float64(−3.7245901639344225)], y: [np.float64(26.6129032258064), np.float64(36.61639344262295)], z: [np.float64(40.314516129032256), np.float64(36.11803278688525)]

Conexion: x: [np.float64(−5.677419354838705), np.float64(7.425925925925924)], y: [np.float64(26.66129032258064), np.float64(27.94444444444457)], z: [np.float64(40.314516129032256), np.float64(48.51851851851852)]

Conexion: x: [np.float64(−5.677419354838705), np.float64(−31.52380952380952)], y: [np.float64(26.66129032258064), np.float64(23.3113553113553)], z: [np.float64(40.314516129032256), np.float64(1.3846153868)]

Conexion: x: [np.float64(−5.677419354838705), np.float64(37.201581027667984)], y: [np.float64(26.66129032258064), np.float64(23.87351778656125)], z: [np.float64(40.314516129032256), np.float64(0.1976284549803957)]

Conexion: x: [np.float64(−5.677419354838705), np.float64(−4.55230125523012)], y: [np.float64(26.66129032258064), np.float64(17.054393305439334)], z: [np.float64(40.314516129032256), np.float64(47.84937238493724)]

Conexion: x: [np.float64(−8.62135922330097), np.float64(−5.096989966555185)], y: [np.float64(64.95145631067962), np.float64(57.39130434782609)], z: [np.float64(5.313915857605181), np.float64(7.404682274247492)]

Conexion: x: [np.float64(−5.096989966555185), np.float64(9.39776951672863)], y: [np.float64(57.39130434782609), np.float64(52.98141263940519)], z: [np.float64(7.404682274247492), np.float64(3.1524163568773247)]

Conexion: x: [np.float64(−5.096989966555185), np.float64(7.117647058823536)], y: [np.float64(57.39130434782609), np.float64(57.448529411764696)], z: [np.float64(7.404682274247492), np.float64(15.742647058823536)]

Conexion: x: [np.float64(−5.096989966555185), np.float64(−4.538745387453872)], y: [np.float64(57.39130434782609), np.float64(46.53874538745387)], z: [np.float64(7.404682274247492), np.float64(3.062730628)]

Conexion: x: [np.float64(−1.898832684824896), np.float64(−3.7245901639344225)], y: [np.float64(46.70817120622567), np.float64(36.61639344262295)], z: [np.float64(31.10505836575875), np.float64(36.11

803278688525)]

Conexion: x: [np.float64(−3.7245901639344225), np.float64(7.347457627118644)], y: [np.float64(36.61639344262295), np.float64(38.525423728813564)], z: [np.float64(36.11803278688525), np.float64(40.66949152542372)]

Conexion: x: [np.float64(−3.7245901639344225), np.float64(−4.040485829959508)], y: [np.float64(36.61639344262295), np.float64(34.688259196931173)], z: [np.float64(36.11803278688525), np.float64(23.603238866396765)]

Conexion: x: [np.float64(9.935483870967744), np.float64(9.39776951672863)], y: [np.float64(66.14746543778801), np.float64(52.98141263940519)], z: [np.float64(6.516129032258064), np.float64(3.1524163568773247)]

Conexion: x: [np.float64(9.935483870967744), np.float64(7.117647058823536)], y: [np.float64(66.14746543778801), np.float64(57.448529411764696)], z: [np.float64(6.516129032258064), np.float64(15.742647058823536)]

Conexion: x: [np.float64(9.935483870967744), np.float64(10.426086956521743)], y: [np.float64(66.14746543778801), np.float64(64.3304347826087)], z: [np.float64(6.516129032258064), np.float64(20.80869565217391)]

Conexion: x: [np.float64(9.39776951672863), np.float64(7.117647058823536)], y: [np.float64(52.98141263940519), np.float64(57.448529411764696)], z: [np.float64(3.1524163568773247), np.float64(15.742647058823536)]

Conexion: x: [np.float64(7.17647058823529), np.float64(10.440366972477065)], y: [np.float64(48.14117647058825), np.float64(53.834623852109)], z: [np.float64(38.627450980392155), np.float64(36.49541284403669)]

Conexion: x: [np.float64(7.17647058823529), np.float64(7.347457627118644)], y: [np.float64(48.14117647058825), np.float64(38.525423728813564)], z: [np.float64(38.627450980392155), np.float64(40.66949152542372)]

Conexion: x: [np.float64(10.440366972477065), np.float64(20.0)], y: [np.float64(53.8346238532109), np.float64(53.20812182741116)], z: [np.float64(36.49541284403669), np.float64(25.401015228426402)]

Conexion: x: [np.float64(7.117647058823536), np.float64(10.426086956521743)], y: [np.float64(57.448529411764696), np.float64(64.3304347826087)], z: [np.float64(15.742647058823536), np.float64(20.80869565217391)]

Conexion: x: [np.float64(10.426086956521743), np.float64(17.65957446808511)], y: [np.float64(64.3304347826087), np.float64(59.446808510638306)], z: [np.float64(20.80869565217391), np.float64(19.585106382978722)]

Conexion: x: [np.float64(7.425925925925924), np.float64(7.347457627118644)], y: [np.float64(27.94444444444457), np.float64(38.525423728813564)], z: [np.float64(48.51851851851852), np.float64(40.66949152542372)]

Conexion: x: [np.float64(7.425925925925924), np.float64(7.942446043165461)], y: [np.float64(27.94444444444457), np.float64(14.050359712238024)], z: [np.float64(48.51851851851852), np.float64(49.99280575539568)]

Conexion: x: [np.float64(10.009049773755663), np.float64(17.18320610687023)], y: [np.float64(34.05429864253395), np.float64(30.160383543511453)], z: [np.float64(56.63348416289594), np.float64(51.473282442748086)]

Conexion: x: [np.float64(−13.743842364532014), np.float64(−21.028571428571425)], y: [np.float64(55.

31034482758622), np.float64(61.428571428571416)], z: [np.float64(−14.600985221674875), np.float64(−6.383673469387759)]

Conexion: x: [np.float64(−14.754448398576514), np.float64(−6.772455089820355)], y: [np.float64(25.964412811387888), np.float64(22.101796407185617)], z: [np.float64(−21.110320284697508), np.float64(−19.203592814371255)]

Conexion: x: [np.float64(−21.028571428571425), np.float64(23.098814229249015)], y: [np.float64(61.428571428571416), np.float64(62.02371541501975)], z: [np.float64(−6.383673469387759), np.float64(−5.003952569169954)]

Conexion: x: [np.float64(23.098814229249015), np.float64(22.6666666666667)], y: [np.float64(62.02371541501975), np.float64(62.30036630663606)], z: [np.float64(56.5003952569169954), np.float64(22.7692307692307736)]

Conexion: x: [np.float64(17.667953667953668), np.float64(16.851405622489963)], y: [np.float64(25.964389961389955), np.float64(42.361445783132524)], z: [np.float64(−21.328185328185327), np.float64(−20.008032128514053)]

Conexion: x: [np.float64(17.667953667953668), np.float64(9.647058823529406)], y: [np.float64(25.961389961389955), np.float64(24.323529411764696)], z: [np.float64(−21.328185328185327), np.float64(−21.13235294117647)]

Conexion: x: [np.float64(22.6666666666667), np.float64(20.51960784313725)], y: [np.float64(62.3003663066306), np.float64(63.16666666666666)], z: [np.float64(2.7692307692307736), np.float64(12.009803921568633)]

Conexion: x: [np.float64(20.51960784313725), np.float64(28.60683706083761)], y: [np.float64(63.16666666666666), np.float64(56.90598290598291)], z: [np.float64(12.009803921568633), np.float64(12.39312393162399)]

Conexion: x: [np.float64(20.51960784313725), np.float64(17.65957446808511)], y: [np.float64(63.16666666666666), np.float64(59.446808510638306)], z: [np.float64(12.009803921568633), np.float64(19.585106382978722)]

Conexion: x: [np.float64(23.755932203389833), np.float64(17.18320610687023)], y: [np.float64(25.349152542372877), np.float64(30.160383543511453)], z: [np.float64(51.01694915254237), np.float64(51.473282442748086)]

Conexion: x: [np.float64(23.755932203389833), np.float64(20.455089820359277)], y: [np.float64(25.349152542372877), np.float64(15.940119760479035)], z: [np.float64(51.01694915254237), np.float64(56.21556886227546)]

Conexion: x: [np.float64(17.18320610687023), np.float64(19.704641350210977)], y: [np.float64(30.160383543511453), np.float64(38.14345991561183)], z: [np.float64(51.473282442748086), np.float64(45.400843881856545)]

Conexion: x: [np.float64(17.65957446808511), np.float64(20.0)], y: [np.float64(59.446808510638306), np.float64(53.20812182741116)], z: [np.float64(19.585106382978722), np.float64(25.401015228426402)]

Conexion: x: [np.float64(20.455089820359277), np.float64(18.748148148148147)], y: [np.float64(15.940119760479035), np.float64(3.8740740740740875)], z: [np.float64(56.221556886227546), np.float64(63.06666666666666)]

Conexion: x: [np.float64(18.98281786941581), np.float64(18.748148148148147)], y: [np.float64(−8.7426804123711), np.float64(3.8740740740740875)], z: [np.float64(70.10309278350516), np.float64(63.06666666666666)]

Conexion: x: [np.float64(18.98281786941581), np.float64(29.247648902821318)], y: [np.float64(-8.74226804123711), np.float64(-6.125391849529777)], z: [np.float64(70.10309278350516), np.float64(65.040755235109718)]

Conexion: x: [np.float64(18.98281786941581), np.float64(30.19913481991342)], y: [np.float64(-8.74226804123711), np.float64(-16.701298701298697)], z: [np.float64(70.10309278350516), np.float64(65.96536796536796)]

Conexion: x: [np.float64(18.98281786941581), np.float64(9.450980392156865)], y: [np.float64(-8.74226804123711), np.float64(-1.1450980392156822)], z: [np.float64(70.10309278350516), np.float64(70.34509803921569)]

Conexion: x: [np.float64(26.25992779783394), np.float64(18.748148148148147)], y: [np.float64(4.490974729241884), np.float64(3.7840740740740875)], z: [np.float64(60.361010830324915), np.float64(63.06666666666666)]

Conexion: x: [np.float64(26.25992779783394), np.float64(29.247648902821318)], y: [np.float64(4.490974729241884), np.float64(-6.125391849529777)], z: [np.float64(60.361010830324915), np.float64(65.04075235109718)]

Conexion: x: [np.float64(26.25992779783394), np.float64(45.80434782608695)], y: [np.float64(4.490974729241884), np.float64(-39.413043478260875)], z: [np.float64(60.361010830324915), np.float64(64.52.89130434782609)]

Conexion: x: [np.float64(26.25992779783394), np.float64(39.96969696969697)], y: [np.float64(4.490974729241884), np.float64(-53.290909090909096)], z: [np.float64(60.361010830324915), np.float64(51.818181818181)]

Conexion: x: [np.float64(26.25992779783394), np.float64(-19.24242424242425)], y: [np.float64(4.490974729241884), np.float64(-59.4469696969697)], z: [np.float64(60.361010830324915), np.float64(61.7651515151515)]

Conexion: x: [np.float64(26.25992779783394), np.float64(23.81967213114754)], y: [np.float64(4.490974729241884), np.float64(-58.040983606557376)], z: [np.float64(60.361010830324915), np.float64(67.172131147541)]

Conexion: x: [np.float64(26.25992779783394), np.float64(42.11965811965812)], y: [np.float64(4.490974729241884), np.float64(-46.63247863247864)], z: [np.float64(60.361010830324915), np.float64(59.58119658119659)]

Conexion: x: [np.float64(26.25992779783394), np.float64(15.43529411764706)], y: [np.float64(4.490974729241884), np.float64(-59.521568627450975)], z: [np.float64(60.361010830324915), np.float64(68.03137254901961)]

Conexion: x: [np.float64(26.25992779783394), np.float64(18.66129032258064)], y: [np.float64(4.490974729241884), np.float64(-69.95967741935485)], z: [np.float64(60.361010830324915), np.float64(58.04032258064515)]

Conexion: x: [np.float64(26.25992779783394), np.float64(-30.414937759336098)], y: [np.float64(4.490974729241884), np.float64(-9.684647302904565)], z: [np.float64(60.361010830324915), np.float64(60.63070539419087)]

Conexion: x: [np.float64(18.0), np.float64(16.757446808510636)], y: [np.float64(50.37894736842105), np.float64(41.787234042553195)], z: [np.float64(32.48421052631579), np.float64(38.91063829787234)]

Conexion: x: [np.float64(18.0), np.float64(20.0)], y: [np.float64(50.37894736842105), np.float64(53.20812182741116)], z: [np.float64(32.48421052631579), np.float64(25.401015228426402)]

Conexion: x: [np.float64(22.98795180722891), np.float64(16.757446808510636)], y: [np.float64(37.95180722891567), np.float64(41.787234042553195)], z: [np.float64(37.437751004016064), np.float64(38.91063829787234)]

Conexion: x: [np.float64(22.98795180722891), np.float64(19.704641350210977)], y: [np.float64(37.95180722891567), np.float64(38.14345991561183)], z: [np.float64(37.437751004016064), np.float64(45.400843881856545)]

Conexion: x: [np.float64(16.757446808510636), np.float64(19.704641350210977)], y: [np.float64(41.787234042553195), np.float64(38.14345991561183)], z: [np.float64(38.91063829787234), np.float64(45.400843881856545)]

Conexion: x: [np.float64(16.757446808510636), np.float64(12.732283464566933)], y: [np.float64(3.8740740740875), np.float64(14.2047240944883)], z: [np.float64(63.06666666666666), np.float64(64.78740157480314)]

Conexion: x: [np.float64(18.748148148148147), np.float64(9.450980392156865)], y: [np.float64(3.8740740740875), np.float64(-1.1450980392156822)], z: [np.float64(63.06666666666666), np.float64(70.34509803921569)]

Conexion: x: [np.float64(29.247648902821318), np.float64(36.78260869565217)], y: [np.float64(-6.125391849529777), np.float64(-36.35573122529644)], z: [np.float64(65.04075235109718), np.float64(62.22924901185772)]

Conexion: x: [np.float64(29.247648902821318), np.float64(-30.414937759336098)], y: [np.float64(-6.125391849529777), np.float64(-9.684647302904565)], z: [np.float64(65.04075235109718), np.float64(60.63070539419087)]

Conexion: x: [np.float64(29.247648902821318), np.float64(36.86466165413534)], y: [np.float64(-6.125391849529777), np.float64(-11.353383458646618)], z: [np.float64(65.04075235109718), np.float64(57.87969924812029)]

Conexion: x: [np.float64(29.247648902821318), np.float64(30.1991341991342)], y: [np.float64(-6.125391849529777), np.float64(-16.701298701298697)], z: [np.float64(65.04075235109718), np.float64(65.96536796536796)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-29.295302013422813)], y: [np.float64(-76.74137931034483), np.float64(-56.7248322147651)], z: [np.float64(-12.577586206896555), np.float64(-14.483221476510067)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-37.445692883895134)], y: [np.float64(-76.74137931034483), np.float64(-67.76779026217228)], z: [np.float64(-12.577586206896555), np.float64(-14.382022471910112)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(28.056451612903224)], y: [np.float64(-76.74137931034483), np.float64(-77.54838709677419)], z: [np.float64(-12.577586206896555), np.float64(-10.37903225806452)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-15.822784810126578)], y: [np.float64(-76.74137931034483), np.float64(-88.06751054852322)], z: [np.float64(-12.577586206896555), np.float64(-14.962025316455694)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-20.30901287553648)], y: [np.float64(-76.74137931034483), np.float64(-90.2918453562623)], z: [np.float64(-12.577586206896555), np.float64(-13.39055793991416)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-17.849315068493155)], y: [np.float64(-76.74137931034483), np.float64(-64.03424657534246)], z: [np.float64(-12.577586206896555), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(22.268656716417908)], y: [np.float64(-76.74137931034483), np.float64(-82.38059701492537)], z: [np.float64(-12.577586206896555), np.float64(-9.02985074626865)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-35.47490374790347)], y: [np.float64(-76.74137931034483), np.float64(-81.66795366795367)], z: [np.float64(-12.577586206896555), np.float64(-8.903474903474901)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-25.8181818181813)], y: [np.float64(-56.7248322147651), np.float64(-41.71212121212122)], z: [np.float64(-14.483221476510067), np.float64(-14.696969696969695)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-39.55072463768116)], y: [np.float64(-56.7248322147651), np.float64(-51.90579710144928)], z: [np.float64(-14.483221476510067), np.float64(-17.8768115942029)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-37.445692883895134)], y: [np.float64(-56.7248322147651), np.float64(-67.76779026217228)], z: [np.float64(-14.483221476510067), np.float64(-14.382022471910112)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(29.364406779661017)], y: [np.float64(-56.7248322147651), np.float64(-63.60169491525424)], z: [np.float64(-14.483221476510067), np.float64(-10.16101694915254)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(27.79775280898876)], y: [np.float64(-56.7248322147651), np.float64(-52.741573033707866)], z: [np.float64(-14.483221476510067), np.float64(-16.232209737827716)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-17.849315068493155)], y: [np.float64(-56.7248322147651), np.float64(-64.03424657534246)], z: [np.float64(-14.483221476510067), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(-29.63404255319149)], y: [np.float64(-41.71212121212122), np.float64(-27.710638297872336)], z: [np.float64(-14.696969696969695), np.float64(-25.778723404255317)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(32.2517985615108)], y: [np.float64(-41.71212121212122), np.float64(-44.877697841726615)], z: [np.float64(-14.696969696969695), np.float64(-12.064748201438846)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(35.515151515151516)], y: [np.float64(-41.71212121212122), np.float64(-32.60606060606061)], z: [np.float64(-14.696969696969695), np.float64(-23.89225589225589)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(-20.2542372881356)], y: [np.float64(-41.71212121212122), np.float64(-32.82203389830508)], z: [np.float64(-14.696969696969695), np.float64(-12.618644067796609)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(-26.2510460251046)], y: [np.float64(-41.71212121212122), np.float64(-28.85356485355654)], z: [np.float64(-14.696969696969695), np.float64(-17.89121338912134)]

Conexion: x: [np.float64(-39.55072463768116), np.float64(-37.445692883895134)], y: [np.float64(-51.90579710144928), np.float64(-67.76779026217228)], z: [np.float64(-17.8768115942029), np.float64(-1

74137931034483), np.float64(-64.03424657534246)], z: [np.float64(-12.577586206896555), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(22.268656716417908)], y: [np.float64(-76.74137931034483), np.float64(-82.38059701492537)], z: [np.float64(-12.577586206896555), np.float64(-9.02985074626865)]

Conexion: x: [np.float64(-26.73275862068965), np.float64(-35.47490374790347)], y: [np.float64(-76.74137931034483), np.float64(-81.66795366795367)], z: [np.float64(-12.577586206896555), np.float64(-8.903474903474901)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-25.8181818181813)], y: [np.float64(-56.7248322147651), np.float64(-41.71212121212122)], z: [np.float64(-14.483221476510067), np.float64(-14.696969696969695)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-39.55072463768116)], y: [np.float64(-56.7248322147651), np.float64(-51.90579710144928)], z: [np.float64(-14.483221476510067), np.float64(-17.8768115942029)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-37.445692883895134)], y: [np.float64(-56.7248322147651), np.float64(-67.76779026217228)], z: [np.float64(-14.483221476510067), np.float64(-14.382022471910112)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(29.364406779661017)], y: [np.float64(-56.7248322147651), np.float64(-63.60169491525424)], z: [np.float64(-14.483221476510067), np.float64(-10.16101694915254)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(27.79775280898876)], y: [np.float64(-56.7248322147651), np.float64(-52.741573033707866)], z: [np.float64(-14.483221476510067), np.float64(-16.232209737827716)]

Conexion: x: [np.float64(-29.295302013422813), np.float64(-17.849315068493155)], y: [np.float64(-56.7248322147651), np.float64(-64.03424657534246)], z: [np.float64(-14.483221476510067), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(-29.63404255319149)], y: [np.float64(-41.71212121212122), np.float64(-27.710638297872336)], z: [np.float64(-14.696969696969695), np.float64(-25.778723404255317)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(32.2517985615108)], y: [np.float64(-41.71212121212122), np.float64(-44.877697841726615)], z: [np.float64(-14.696969696969695), np.float64(-12.064748201438846)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(35.515151515151516)], y: [np.float64(-41.71212121212122), np.float64(-32.60606060606061)], z: [np.float64(-14.696969696969695), np.float64(-23.89225589225589)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(-20.2542372881356)], y: [np.float64(-41.71212121212122), np.float64(-32.82203389830508)], z: [np.float64(-14.696969696969695), np.float64(-12.618644067796609)]

Conexion: x: [np.float64(-25.8181818181813), np.float64(-26.2510460251046)], y: [np.float64(-41.71212121212122), np.float64(-28.85356485355654)], z: [np.float64(-14.696969696969695), np.float64(-17.89121338912134)]

Conexion: x: [np.float64(-39.55072463768116), np.float64(-37.445692883895134)], y: [np.float64(-51.90579710144928), np.float64(-67.76779026217228)], z: [np.float64(-17.8768115942029), np.float64(-1

4.382022471910112)]

Conexion: x: [np.float64(-39.55072463768116), np.float64(40.620370370370374)], y: [np.float64(-51.90579710144928), np.float64(-62.01851851851852)], z: [np.float64(-17.8768115942029), np.float64(-17.601851851851855)]

Conexion: x: [np.float64(-39.55072463768116), np.float64(40.64777327932281)], y: [np.float64(-51.90579710144928), np.float64(-42.61538461538461)], z: [np.float64(-17.8768115942029), np.float64(-20.672064777327932)]

Conexion: x: [np.float64(-39.55072463768116), np.float64(-50.9469964664311)], y: [np.float64(-51.90579710144928), np.float64(-53.90106007067138)], z: [np.float64(-17.8768115942029), np.float64(-19.32862190812721)]

Conexion: x: [np.float64(-27.8498023715415), np.float64(-27.981900452488688)], y: [np.float64(-9.573122529644266), np.float64(-0.8868778280542955)], z: [np.float64(-37.07509881422925), np.float64(-38.69683257918552)]

Conexion: x: [np.float64(-27.8498023715415), np.float64(31.871428571428574)], y: [np.float64(-9.573122529644266), np.float64(0.5214285714285722)], z: [np.float64(-37.07509881422925), np.float64(-39.464285714285715)]

Conexion: x: [np.float64(-27.8498023715415), np.float64(-38.61044176706827)], y: [np.float64(-9.573122529644266), np.float64(-7.5421686746988)], z: [np.float64(-37.07509881422925), np.float64(-37.53413654618474)]

Conexion: x: [np.float64(-29.63404255319149), np.float64(-36.58555133079847)], y: [np.float64(-27.710638297872336), np.float64(-31.49049429657795)], z: [np.float64(-25.778723404255317), np.float64(-22.88212927756654)]

Conexion: x: [np.float64(-29.63404255319149), np.float64(-26.2510460251046)], y: [np.float64(-27.710638297872336), np.float64(-28.85356485355654)], z: [np.float64(-25.778723404255317), np.float64(-17.89121338912134)]

Conexion: x: [np.float64(-27.981900452488688), np.float64(31.871428571428574)], y: [np.float64(-0.8868778280542955), np.float64(0.5214285714285722)], z: [np.float64(-38.69683257918552), np.float64(-39.464285714285715)]

Conexion: x: [np.float64(-27.981900452488688), np.float64(-38.61044176706827)], y: [np.float64(-0.8868778280542955), np.float64(-7.5421686746988)], z: [np.float64(-38.69683257918552), np.float64(-37.53413654618474)]

Conexion: x: [np.float64(-36.58555133079847), np.float64(-43.029629629629625)], y: [np.float64(-31.49049429657795), np.float64(-26.1037037037037)], z: [np.float64(-22.88212927756654), np.float64(-23.837037037037035)]

Conexion: x: [np.float64(-36.58555133079847), np.float64(-45.33333333333334)], y: [np.float64(-31.49049429657795), np.float64(-38.586956521739125)], z: [np.float64(-22.88212927756654), np.float64(-22.014492753623188)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(28.056451612903224)], y: [np.float64(-67.76779026217228), np.float64(-77.54838709677419)], z: [np.float64(-14.382022471910112), np.float64(-10.37903225806452)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(40.620370370370374)], y: [np.float64(-67.76779026217228), np.float64(-62.01851851851852)], z: [np.float64(-14.382022471910112), np.float64(-17.601851851851855)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(-46.71090047393366)], y: [np.float64(-67.76779026217228), np.float64(-67.260663507109)], z: [np.float64(-14.382022471910112), np.float64(-13.203791469194314)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(-42.68141592920355)], y: [np.float64(-67.76779026217228), np.float64(-73.84070796460176)], z: [np.float64(-14.382022471910112), np.float64(-6.1061946902654824)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(-35.47490374790347)], y: [np.float64(-67.76779026217228), np.float64(-81.66795366795367)], z: [np.float64(-14.382022471910112), np.float64(-8.903474903474901)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(44.294117647058826)], y: [np.float64(-67.76779026217228), np.float64(-32.38970588235294)], z: [np.float64(-14.382022471910112), np.float64(-12.455882352941174)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(41.24528301886792)], y: [np.float64(-67.76779026217228), np.float64(-81.10188679245283)], z: [np.float64(-14.382022471910112), np.float64(-5.992452830188682)]

Conexion: x: [np.float64(-37.445692883895134), np.float64(50.76086956521739)], y: [np.float64(-67.76779026217228), np.float64(-63.91847826086956)], z: [np.float64(-14.382022471910112), np.float64(-13.570652173913047)]

Conexion: x: [np.float64(29.364406779661017), np.float64(27.79775280898876)], y: [np.float64(-63.60169491525424), np.float64(-52.741573033707866)], z: [np.float64(-10.16101694915254), np.float64(-16.232209737827716)]

Conexion: x: [np.float64(29.364406779661017), np.float64(28.056451612903224)], y: [np.float64(-63.60169491525424), np.float64(-77.54838709677419)], z: [np.float64(-10.16101694915254), np.float64(-10.37903225806452)]

Conexion: x: [np.float64(29.364406779661017), np.float64(-17.849315068493155)], y: [np.float64(-63.60169491525424), np.float64(-64.0342657534246)], z: [np.float64(-10.16101694915254), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(29.364406779661017), np.float64(16.131147540983605)], y: [np.float64(-63.60169491525424), np.float64(-77.42295081967214)], z: [np.float64(-10.16101694915254), np.float64(-9.64590163934426)]

Conexion: x: [np.float64(32.25179856115108), np.float64(27.79775280898876)], y: [np.float64(-44.877697841726615), np.float64(-52.741573033707866)], z: [np.float64(-12.064748201438846), np.float64(-16.232209737827716)]

Conexion: x: [np.float64(32.25179856115108), np.float64(20.512195121951223)], y: [np.float64(-44.877697841726615), np.float64(-47.84552845528455)], z: [np.float64(-12.064748201438846), np.float64(-7.032520325203251)]

Conexion: x: [np.float64(32.25179856115108), np.float64(29.768115942028984)], y: [np.float64(-44.877697841726615), np.float64(-35.5555555555556)], z: [np.float64(-12.064748201438846), np.float64(-10.734299516908216)]

Conexion: x: [np.float64(32.65470852017937), np.float64(31.871428571428574)], y: [np.float64(-9.659192825112115), np.float64(0.5214285714285722)], z: [np.float64(-38.28699551569507), np.float64(-39.464285714285715)]

Conexion: x: [np.float64(27.79775280898876), np.float64(40.620370370370374)], y: [np.float64(-52.74

1573033707866), np.float64(-62.01851851851852)], z: [np.float64(-16.232209737827716), np.float64(-17.601851851851855)]

Conexion: x: [np.float64(35.515151515151516), np.float64(40.64777327935223)], y: [np.float64(-32.60606060606061), np.float64(-42.61538461538461)], z: [np.float64(-23.89225589225589), np.float64(-20.672064777327932)]

Conexion: x: [np.float64(28.056451612903224), np.float64(16.131147540983605)], y: [np.float64(-77.54838709677419), np.float64(-77.42295081967214)], z: [np.float64(-10.37903225806452), np.float64(-9.64590163934426)]

Conexion: x: [np.float64(28.056451612903224), np.float64(22.268656716417908)], y: [np.float64(-77.54838709677419), np.float64(-82.38059701492537)], z: [np.float64(-10.37903225806452), np.float64(-9.02985074626865)]

Conexion: x: [np.float64(28.056451612903224), np.float64(-35.47490347490347)], y: [np.float64(-77.54838709677419), np.float64(-81.66795366795367)], z: [np.float64(-10.37903225806452), np.float64(-8.903474903474901)]

Conexion: x: [np.float64(28.056451612903224), np.float64(34.86659278969957)], y: [np.float64(-77.54838709677419), np.float64(-87.2961373390558)], z: [np.float64(-10.37903225806452), np.float64(-11.133047210300433)]

Conexion: x: [np.float64(28.056451612903224), np.float64(41.24528301886792)], y: [np.float64(-77.54838709677419), np.float64(-81.10188679245283)], z: [np.float64(-10.37903225806452), np.float64(-5.992452830188682)]

Conexion: x: [np.float64(39.424778761061944), np.float64(29.706122448979592)], y: [np.float64(-21.26548672566372), np.float64(-19.004081632653055)], z: [np.float64(-26.415929203539825), np.float64(-25.461224489795917)]

Conexion: x: [np.float64(39.424778761061944), np.float64(-43.029629629629625)], y: [np.float64(-21.26548672566372), np.float64(-26.1037037037037)], z: [np.float64(-26.415929203539825), np.float64(-23.837037037037035)]

Conexion: x: [np.float64(39.424778761061944), np.float64(48.87586206896552)], y: [np.float64(-21.26548672566372), np.float64(-16.944827586206898)], z: [np.float64(-26.415929203539825), np.float64(-29.420689655172417)]

Conexion: x: [np.float64(31.871428571428574), np.float64(25.40517241379311)], y: [np.float64(0.5214285714285722), np.float64(1.103448275862064)], z: [np.float64(-39.464285714285715), np.float64(-31.60344827586207)]

Conexion: x: [np.float64(31.871428571428574), np.float64(37.74324324324324)], y: [np.float64(0.5214285714285722), np.float64(4.702702702702709)], z: [np.float64(-39.464285714285715), np.float64(-41.87837837837838)]

Conexion: x: [np.float64(31.871428571428574), np.float64(42.633663366336634)], y: [np.float64(0.5214285714285722), np.float64(-4.752475247524757)], z: [np.float64(-39.464285714285715), np.float64(-40.17821782178218)]

Conexion: x: [np.float64(40.620370370370374), np.float64(40.64777327935223)], y: [np.float64(-62.01851851851852), np.float64(-42.61538461538461)], z: [np.float64(-17.601851851851855), np.float64(-20.672064777327932)]

Conexion: x: [np.float64(40.620370370370374), np.float64(-46.71090047393366)], y: [np.float64(-62.01851851851852), np.float64(-67.260663507109)], z: [np.float64(-17.601851851851855), np.float64(-13.

203791469194314)]

Conexion: x: [np.float64(40.620370370370374), np.float64(-42.68141592920355)], y: [np.float64(-62.01851851851852), np.float64(-73.84070796460176)], z: [np.float64(-17.601851851851855), np.float64(-6.1061946902654824)]

Conexion: x: [np.float64(40.620370370370374), np.float64(44.294117647058826)], y: [np.float64(-62.01851851851852), np.float64(-72.38970588235294)], z: [np.float64(-17.601851851851855), np.float64(-12.455882352941174)]

Conexion: x: [np.float64(40.620370370370374), np.float64(41.24528301886792)], y: [np.float64(-62.01851851851852), np.float64(-81.10188679245283)], z: [np.float64(-17.601851851851855), np.float64(-5.992452830188682)]

Conexion: x: [np.float64(40.620370370370374), np.float64(50.76086956521739)], y: [np.float64(-62.01851851851852), np.float64(-63.91847826086956)], z: [np.float64(-17.601851851851855), np.float64(-13.570652173913047)]

Conexion: x: [np.float64(40.64777327935223), np.float64(51.55425219941349)], y: [np.float64(-42.61538461538461), np.float64(-43.64809384164222)], z: [np.float64(-20.672064777327932), np.float64(-24.18181818181818)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(45.87951807228916)], y: [np.float64(-20.03555555555556), np.float64(-18.144578313253007)], z: [np.float64(8.675555555555562), np.float64(9.044176706827315)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(-35.34821428571429)], y: [np.float64(-20.03555555555556), np.float64(-18.00357142857143)], z: [np.float64(8.675555555555562), np.float64(10.25)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(36.21487603305785)], y: [np.float64(-20.03555555555556), np.float64(-18.396694214876035)], z: [np.float64(8.675555555555562), np.float64(12.991735537190081)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(-45.52287581699346)], y: [np.float64(-20.03555555555556), np.float64(-14.169934640522882)], z: [np.float64(8.675555555555562), np.float64(12.503267973856211)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(-48.415430267062305)], y: [np.float64(-20.03555555555556), np.float64(-15.821958456973292)], z: [np.float64(8.675555555555562), np.float64(14.492581602373889)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(57.5108359133127)], y: [np.float64(-20.03555555555556), np.float64(-13.708978328173373)], z: [np.float64(8.675555555555562), np.float64(13.87616099071208)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(-52.1078381742739)], y: [np.float64(-20.03555555555556), np.float64(-22.43983402489627)], z: [np.float64(8.675555555555562), np.float64(10.049792531120332)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(-53.07499999999999)], y: [np.float64(-20.03555555555556), np.float64(-18.299999999999997)], z: [np.float64(8.675555555555562), np.float64(3.191666666666663)]

Conexion: x: [np.float64(-42.346666666666664), np.float64(-52.23938223938225)], y: [np.float64(-20.03555555555556), np.float64(-10.91119691119691)], z: [np.float64(8.675555555555562), np.float64(-0.8339768339768341)]

1573033707866), np.float64(-62.01851851851852)], z: [np.float64(-16.232209737827716), np.float64(-17.601851851851855)]

Conexion: x: [np.float64(35.515151515151516), np.float64(40.64777327935223)], y: [np.float64(-32.60606060606061), np.float64(-42.61538461538461)], z: [np.float64(-23.89225589225589), np.float64(-20.672064777327932)]

Conexion: x: [np.float64(28.056451612903224), np.float64(16.131147540983605)], y: [np.float64(-77.54838709677419), np.float64(-77.42295081967214)], z: [np.float64(-10.37903225806452), np.float64(-9.64590163934426)]

Conexion: x: [np.float64(28.056451612903224), np.float64(22.268656716417908)], y: [np.float64(-77.54838709677419), np.float64(-82.38059701492537)], z: [np.float64(-10.37903225806452), np.float64(-9.02985074626865)]

Conexion: x: [np.float64(28.056451612903224), np.float64(-35.47490347490347)], y: [np.float64(-77.54838709677419), np.float64(-81.66795366795367)], z: [np.float64(-10.37903225806452), np.float64(-8.903474903474901)]

Conexion: x: [np.float64(28.056451612903224), np.float64(34.86659278969957)], y: [np.float64(-77.54838709677419), np.float64(-87.2961373390558)], z: [np.float64(-10.37903225806452), np.float64(-11.133047210300433)]

Conexion: x: [np.float64(28.056451612903224), np.float64(41.24528301886792)], y: [np.float64(-77.54838709677419), np.float64(-81.10188679245283)], z: [np.float64(-10.37903225806452), np.float64(-5.992452830188682)]

Conexion: x: [np.float64(39.424778761061944), np.float64(29.706122448979592)], y: [np.float64(-21.26548672566372), np.float64(-19.004081632653055)], z: [np.float64(-26.415929203539825), np.float64(-25.461224489795917)]

Conexion: x: [np.float64(39.424778761061944), np.float64(-43.029629629629625)], y: [np.float64(-21.26548672566372), np.float64(-26.1037037037037)], z: [np.float64(-26.415929203539825), np.float64(-23.837037037037035)]

Conexion: x: [np.float64(39.424778761061944), np.float64(48.87586206896552)], y: [np.float64(-21.26548672566372), np.float64(-16.944827586206898)], z: [np.float64(-26.415929203539825), np.float64(-29.420689655172417)]

Conexion: x: [np.float64(31.871428571428574), np.float64(25.40517241379311)], y: [np.float64(0.5214285714285722), np.float64(1.103448275862064)], z: [np.float64(-39.464285714285715), np.float64(-31.60344827586207)]

Conexion: x: [np.float64(31.871428571428574), np.float64(37.74324324324324)], y: [np.float64(0.5214285714285722), np.float64(4.702702702702709)], z: [np.float64(-39.464285714285715), np.float64(-41.87837837837838)]

Conexion: x: [np.float64(31.871428571428574), np.float64(42.633663366336634)], y: [np.float64(0.5214285714285722), np.float64(-4.752475247524757)], z: [np.float64(-39.464285714285715), np.float64(-40.17821782178218)]

Conexion: x: [np.float64(40.620370370370374), np.float64(40.64777327935223)], y: [np.float64(-62.01851851851852), np.float64(-42.61538461538461)], z: [np.float64(-17.601851851851855), np.float64(-20.672064777327932)]

Conexion: x: [np.float64(40.620370370370374), np.float64(-46.71090047393366)], y: [np.float64(-62.01851851851852), np.float64(-67.260663507109)], z: [np.float64(-17.601851851851855), np.float64(-13.

057613168725)], np.float64(-2.486956521739131)], z: [np.float64(-18.959884773662553)], np.float64(-2 3.930434782608693)]

Conexion: x: [np.float64(-30.347169811320754), np.float64(33.298507462686565)], y: [np.float64(-14.981132075471692), np.float64(-13.082089552238813)], z: [np.float64(-16.596226415094343), np.float64(-16.253731343283583)]

Conexion: x: [np.float64(-30.347169811320754), np.float64(26.61111111111114)], y: [np.float64(-14.981132075471692), np.float64(-11.992063492063494)], z: [np.float64(-16.596226415094343), np.float64(-18.96825396825397)]

Conexion: x: [np.float64(-38.0952380952381), np.float64(-42.803278688524586)], y: [np.float64(-63.94444444444444), np.float64(-62.90983606557377)], z: [np.float64(42.86507936507937), np.float64(38.803278688524586)]

Conexion: x: [np.float64(-38.0952380952381), np.float64(-30.609970674868803)], y: [np.float64(-63.94444444444444), np.float64(-64.96774193548387)], z: [np.float64(42.86507936507937), np.float64(43.313782991202345)]

Conexion: x: [np.float64(-47.54751131221718), np.float64(-49.516393442622956)], y: [np.float64(-61.809954751131215), np.float64(-55.893442622950815)], z: [np.float64(25.366515837104075), np.float64(31.278688524590166)]

Conexion: x: [np.float64(-47.54751131221718), np.float64(-44.75471698113208)], y: [np.float64(-61.809954751131215), np.float64(-66.32075471698113)], z: [np.float64(25.366515837104075), np.float64(31.632075471698116)]

Conexion: x: [np.float64(-47.54751131221718), np.float64(-5.976095617529879)], y: [np.float64(-61.809954751131215), np.float64(-57.69721115537848)], z: [np.float64(25.366515837104075), np.float64(31.632075471698116)]

Conexion: x: [np.float64(-47.54751131221718), np.float64(-47.20187793427229)], y: [np.float64(-61.809954751131215), np.float64(-57.436619718309856)], z: [np.float64(25.366515837104075), np.float64(17.981220657276992)]

Conexion: x: [np.float64(-47.54751131221718), np.float64(-44.478048780487796)], y: [np.float64(-61.809954751131215), np.float64(-66.79024390243902)], z: [np.float64(25.366515837104075), np.float64(17.014634146341464)]

Conexion: x: [np.float64(-42.803278688524586), np.float64(-44.75471698113208)], y: [np.float64(-62.90983606557377), np.float64(-66.32075471698113)], z: [np.float64(38.803278688524586), np.float64(31.632075471698116)]

Conexion: x: [np.float64(-49.516393442622956), np.float64(-44.75471698113208)], y: [np.float64(-55.893442622950815), np.float64(-66.32075471698113)], z: [np.float64(31.278688524590166), np.float64(31.632075471698116)]

Conexion: x: [np.float64(-49.516393442622956), np.float64(48.055335968379445)], y: [np.float64(-55.893442622950815), np.float64(-63.22529644268775)], z: [np.float64(31.278688524590166), np.float64(32.3794466403162)]

Conexion: x: [np.float64(-49.516393442622956), np.float64(-54.13654618473896)], y: [np.float64(-55.893442622950815), np.float64(-46.18473895582329)], z: [np.float64(31.278688524590166), np.float64(30.955823293172685)]

Conexion: x: [np.float64(-44.75471698113208), np.float64(-37.365187713310576)], y: [np.float64(-66.32075471698113), np.float64(-73.208191122627987)], z: [np.float64(31.632075471698116), np.float64(2

8.51194539249147)]

Conexion: x: [np.float64(-44.75471698113208), np.float64(48.055335968379445)], y: [np.float64(-66.32075471698113), np.float64(-63.22529644268775)], z: [np.float64(31.632075471698116), np.float64(32.3794466403162)]

Conexion: x: [np.float64(-44.75471698113208), np.float64(-5.976095617529879)], y: [np.float64(-66.32075471698113), np.float64(-57.69721115537848)], z: [np.float64(31.632075471698116), np.float64(31.63262948207177)]

Conexion: x: [np.float64(22.26794258373205), np.float64(32.70967741935484)], y: [np.float64(-31.72248803827752), np.float64(-30.87557606866363)], z: [np.float64(-32.70967741935484), np.float64(-6.921658986175117)]

Conexion: x: [np.float64(22.26794258373205), np.float64(20.68807339449542)], y: [np.float64(-31.72248803827752), np.float64(-28.073394495412842)], z: [np.float64(-1.5023923444976077), np.float64(-15.220183466238533)]

Conexion: x: [np.float64(33.298507462686565), np.float64(26.61111111111114)], y: [np.float64(-13.082089552238813), np.float64(-11.992063492063494)], z: [np.float64(-16.253731343283583), np.float64(-18.96825396825397)]

Conexion: x: [np.float64(26.61111111111114), np.float64(20.10434782608695)], y: [np.float64(-11.992063492063494), np.float64(-2.486956521739131)], z: [np.float64(-18.96825396825397), np.float64(-2 3.930434782608693)]

Conexion: x: [np.float64(26.61111111111114), np.float64(29.706122448979592)], y: [np.float64(-11.992063492063494), np.float64(-19.004081632653055)], z: [np.float64(-18.96825396825397), np.float64(-25.461224489795917)]

Conexion: x: [np.float64(32.70967741935484), np.float64(29.768115942028984)], y: [np.float64(-30.87557606866363), np.float64(-35.55555555555556)], z: [np.float64(-6.921658986175117), np.float64(-10.734299516908216)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(-36.08906882591094)], y: [np.float64(-5.2177121771217685), np.float64(-4.218623481781378)], z: [np.float64(1.0258302583025767), np.float64(1.03.18218623481782)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(40.87747035573123)], y: [np.float64(-5.2177121771217685), np.float64(7.0909090909090935)], z: [np.float64(1.0258302583025767), np.float64(1.097628458497974)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(42.83524904214559)], y: [np.float64(-5.2177121771217685), np.float64(-5.731800766283527)], z: [np.float64(1.0258302583025767), np.float64(-3.5708812260536433)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(39.93162393162393)], y: [np.float64(-5.2177121771217685), np.float64(-3.8547008547008517)], z: [np.float64(1.0258302583025767), np.float64(1 0.41880341880342)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(-45.52287581699346)], y: [np.float64(-5.2177121771217685), np.float64(-14.169934460522882)], z: [np.float64(1.0258302583025767), np.float64(12.503267973856211)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(-47.27516778523491)], y: [np.float64(-5.2177121771217685), np.float64(-0.6577181208053702)], z: [np.float64(1.0258302583025767), np.float64(8.053691275167779)]

Conexion: x: [np.float64(-40.36162361623616), np.float64(-58.40466926070039)], y: [np.float64(-5.2177121771217685), np.float64(-26.210116731517516)], z: [np.float64(1.0258302583025767), np.float64(2 2.264591439688715)]

Conexion: x: [np.float64(-35.34821428571429), np.float64(-45.52287581699346)], y: [np.float64(-18.80357142857143), np.float64(-14.169934640522882)], z: [np.float64(10.25), np.float64(12.503267973856211)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(-31.948717948717942)], y: [np.float64(23.313553113553), np.float64(1.88644688644689)], z: [np.float64(1.3846153846153868), np.float64(9.318681318681314)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(-35.60942760942761)], y: [np.float64(23.313553113553), np.float64(14.17508417508418)], z: [np.float64(1.3846153846153868), np.float64(-6.350168305168346)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(37.201581027667984)], y: [np.float64(23.313553113553), np.float64(23.87351778656125)], z: [np.float64(1.3846153846153868), np.float64(0.19362845849803057)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(40.33333333333336)], y: [np.float64(23.313553113553), np.float64(13.207407407407402)], z: [np.float64(1.3846153846153868), np.float64(0.2814814814814781)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(-37.10914454277287)], y: [np.float64(23.313553113553), np.float64(-55.687315634218294)], z: [np.float64(1.3846153846153868), np.float64(52.607669616519175)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(-48.1930501930502)], y: [np.float64(23.313553113553), np.float64(7.888803088803075)], z: [np.float64(1.3846153846153868), np.float64(32.308880308880305)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(-2.606837606837601)], y: [np.float64(23.313553113553), np.float64(12.0)], z: [np.float64(1.3846153846153868), np.float64(55.27350427350427)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(-4.55230125523012)], y: [np.float64(23.313553113553), np.float64(17.054393305439334)], z: [np.float64(1.3846153846153868), np.float64(47.84937238493724)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(7.942446043165461)], y: [np.float64(23.313553113553), np.float64(14.050359712230204)], z: [np.float64(1.3846153846153868), np.float64(49.99280575539568)]

Conexion: x: [np.float64(-31.52380952380952), np.float64(8.902255639097746)], y: [np.float64(23.313553113553), np.float64(-11.94736842105263)], z: [np.float64(1.3846153846153868), np.float64(3.744360902255636)]

Conexion: x: [np.float64(-31.948717948717942), np.float64(-36.08906882591094)], y: [np.float64(14.88644688644689), np.float64(-4.218623481781378)], z: [np.float64(9.318681318681314), np.float64(13.18218623481782)]

Conexion: x: [np.float64(-31.948717948717942), np.float64(37.201581027667984)], y: [np.float64(14.88644688644689), np.float64(23.87351778656125)], z: [np.float64(9.318681318681314), np.float64(0.19762845849803057)]

Conexion: x: [np.float64(-31.948717948717942), np.float64(40.33333333333336)], y: [np.float64(14.88644688644689), np.float64(13.207407407407402)], z: [np.float64(9.318681318681314), np.float64(0.28

14814814814781)]

Conexion: x: [np.float64(-31.948717948717942), np.float64(-14.693140794223822)], y: [np.float64(14.88644688644689), np.float64(-15.653429602888082)], z: [np.float64(9.318681318681314), np.float64(7.812274368231044)]

Conexion: x: [np.float64(-35.60942760942761), np.float64(-37.062271062271066)], y: [np.float64(14.17508417508418), np.float64(7.831501831501839)], z: [np.float64(-6.350168305168346), np.float64(-10.366300366300365)]

Conexion: x: [np.float64(-35.60942760942761), np.float64(37.201581027667984)], y: [np.float64(14.17508417508418), np.float64(23.87351778656125)], z: [np.float64(-6.350168305168346), np.float64(0.19762845849803057)]

Conexion: x: [np.float64(-35.60942760942761), np.float64(33.4863813229572)], y: [np.float64(14.17508417508418), np.float64(16.871595330739297)], z: [np.float64(-6.350168305168346), np.float64(-13.99443579766537)]

Conexion: x: [np.float64(-35.60942760942761), np.float64(40.33333333333336)], y: [np.float64(14.17508417508418), np.float64(13.207407407407402)], z: [np.float64(-6.350168305168346), np.float64(0.2814814814814781)]

Conexion: x: [np.float64(-36.08906882591094), np.float64(39.93162393162393)], y: [np.float64(-4.218623481781378), np.float64(-3.8547008547008517)], z: [np.float64(13.18218623481782), np.float64(10.41880341880342)]

Conexion: x: [np.float64(-36.08906882591094), np.float64(-48.571428571428584)], y: [np.float64(-4.218623481781378), np.float64(0.673469387755091)], z: [np.float64(13.18218623481782), np.float64(13.132653061224488)]

Conexion: x: [np.float64(-36.08906882591094), np.float64(-47.27516778523491)], y: [np.float64(-4.218623481781378), np.float64(-0.6577181208053702)], z: [np.float64(13.18218623481782), np.float64(8.053691275167779)]

Conexion: x: [np.float64(37.201581027667984), np.float64(33.4863813229572)], y: [np.float64(23.87351778656125), np.float64(16.871595330739297)], z: [np.float64(0.19762845849803057), np.float64(-13.99443579766537)]

Conexion: x: [np.float64(37.201581027667984), np.float64(40.33333333333336)], y: [np.float64(23.87351778656125), np.float64(13.207407407407402)], z: [np.float64(0.19762845849803057), np.float64(0.2814814814814781)]

Conexion: x: [np.float64(37.201581027667984), np.float64(-37.10914454277287)], y: [np.float64(23.87351778656125), np.float64(-55.687315634218294)], z: [np.float64(0.19762845849803057), np.float64(5.2607669616519175)]

Conexion: x: [np.float64(37.201581027667984), np.float64(39.96969696969697)], y: [np.float64(23.87351778656125), np.float64(-53.290909090909096)], z: [np.float64(0.19762845849803057), np.float64(51.81818181818181)]

Conexion: x: [np.float64(37.201581027667984), np.float64(-30.687074829931973)], y: [np.float64(23.87351778656125), np.float64(-61.74829931972789)], z: [np.float64(0.19762845849803057), np.float64(5 3.25170068027211)]

Conexion: x: [np.float64(37.201581027667984), np.float64(-48.1930501930502)], y: [np.float64(23.87351778656125), np.float64(7.088803088803075)], z: [np.float64(0.19762845849803057), np.float64(32.308880308880305)]

Conexion: x: [np.float64(37.201581027667984), np.float64(50.06896551724138)], y: [np.float64(23.87351778656125), np.float64(7.400000000000006)], z: [np.float64(0.19762845849803057), np.float64(40.28965517241379)]

Conexion: x: [np.float64(37.201581027667984), np.float64(-2.606837606837601)], y: [np.float64(23.87351778656125), np.float64(12.0)], z: [np.float64(0.19762845849803057), np.float64(55.27350427350427)]

Conexion: x: [np.float64(37.201581027667984), np.float64(-4.55230125523012)], y: [np.float64(23.87351778656125), np.float64(17.054393305439334)], z: [np.float64(0.19762845849803057), np.float64(47.84937238493724)]

Conexion: x: [np.float64(37.201581027667984), np.float64(7.942446043165461)], y: [np.float64(23.87351778656125), np.float64(14.050359712230204)], z: [np.float64(0.19762845849803057), np.float64(49.99280575539568)]

Conexion: x: [np.float64(37.201581027667984), np.float64(-7.268656716417908)], y: [np.float64(23.87351778656125), np.float64(-11.007462686567166)], z: [np.float64(0.19762845849803057), np.float64(5.597014925373131)]

Conexion: x: [np.float64(37.201581027667984), np.float64(8.902255639097746)], y: [np.float64(23.87351778656125), np.float64(-11.94736842105263)], z: [np.float64(0.19762845849803057), np.float64(3.744360902255636)]

Conexion: x: [np.float64(40.33333333333336), np.float64(40.87747035573123)], y: [np.float64(13.207407407407402), np.float64(7.0909090909090935)], z: [np.float64(0.2814814814814781), np.float64(1.0197628458497974)]

Conexion: x: [np.float64(40.33333333333336), np.float64(-24.06037735849057)], y: [np.float64(13.207407407407402), np.float64(4.77735849056603)], z: [np.float64(0.2814814814814781), np.float64(8.03735849056602)]

Conexion: x: [np.float64(40.33333333333336), np.float64(7.942446043165461)], y: [np.float64(13.207407407407402), np.float64(14.050359712230204)], z: [np.float64(0.2814814814814781), np.float64(49.99280575539568)]

Conexion: x: [np.float64(40.33333333333336), np.float64(8.902255639097746)], y: [np.float64(13.207407407407402), np.float64(-11.94736842105263)], z: [np.float64(0.2814814814814781), np.float64(3.744360902255636)]

Conexion: x: [np.float64(40.87747035573123), np.float64(42.83524904214559)], y: [np.float64(7.09090909090935), np.float64(-5.73180076283527)], z: [np.float64(1.0197628458497974), np.float64(-3.59708812260536433)]

Conexion: x: [np.float64(40.87747035573123), np.float64(39.93162393162393)], y: [np.float64(7.09090909090935), np.float64(-3.8547008547008517)], z: [np.float64(1.0197628458497974), np.float64(10.41880341880342)]

Conexion: x: [np.float64(42.83524904214559), np.float64(39.93162393162393)], y: [np.float64(-5.73180076283527), np.float64(-3.8547008547008517)], z: [np.float64(-3.5708812260536433), np.float64(10.41880341880342)]

Conexion: x: [np.float64(39.93162393162393), np.float64(36.21487603305785)], y: [np.float64(-3.8547008547008517), np.float64(-18.39669447086035)], z: [np.float64(10.41880341880342), np.float64(12.991735537190081)]

Conexion: x: [np.float64(39.93162393162393), np.float64(-48.571428571428584)], y: [np.float64(-3.85

471698113208)]

Conexion: x: [np.float64(-19.91891891891892), np.float64(-17.849315068493155)], y: [np.float64(-68.44594594594594), np.float64(-64.03424657534246)], z: [np.float64(-2.804054054054049), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(-19.91891891891892), np.float64(17.61338289962825)], y: [np.float64(-68.44594594594594), np.float64(-49.29368029739777)], z: [np.float64(-2.804054054054049), np.float64(-0.3866171003717511)]

Conexion: x: [np.float64(-19.91891891891892), np.float64(-8.484429065743939)], y: [np.float64(-68.44594594594594), np.float64(-84.59515570934256)], z: [np.float64(-2.804054054054049), np.float64(4.802768166089962)]

Conexion: x: [np.float64(-19.91891891891892), np.float64(19.481707317073173)], y: [np.float64(-68.44594594594594), np.float64(-63.11585365853658)], z: [np.float64(-2.804054054054049), np.float64(9.810975609756099)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(22.268656716417908)], y: [np.float64(-90.29184549356223), np.float64(-82.38059701492537)], z: [np.float64(-13.39055793991416), np.float64(-9.02985074626865)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(24.30232558139535)], y: [np.float64(-90.29184549356223), np.float64(-94.53488372093022)], z: [np.float64(-13.39055793991416), np.float64(-13.662790697674417)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(-23.0204081632653)], y: [np.float64(-90.29184549356223), np.float64(-93.23265306122448)], z: [np.float64(-13.39055793991416), np.float64(-8.78367346938775)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(29.00456621004566)], y: [np.float64(-90.29184549356223), np.float64(-94.76712328767124)], z: [np.float64(-13.39055793991416), np.float64(-6.045662100456624)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(34.86695278969957)], y: [np.float64(-90.29184549356223), np.float64(-87.2961373390558)], z: [np.float64(-13.39055793991416), np.float64(-11.133047210300433)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(-5.340206185567013)], y: [np.float64(-90.29184549356223), np.float64(-97.74226804123711)], z: [np.float64(-13.39055793991416), np.float64(-7.948453608274719)]

Conexion: x: [np.float64(-20.30901287553648), np.float64(19.75)], y: [np.float64(-90.29184549356223), np.float64(-96.546875)], z: [np.float64(-13.39055793991416), np.float64(-0.75)]

Conexion: x: [np.float64(-6.15094339622641), np.float64(10.4083044982699)], y: [np.float64(-68.27924528301887), np.float64(-67.01038062283737)], z: [np.float64(1.95471698113208), np.float64(1.993079584750886)]

Conexion: x: [np.float64(-6.15094339622641), np.float64(-7.27384615846151)], y: [np.float64(-68.27924528301887), np.float64(-79.1076923076923)], z: [np.float64(1.95471698113208), np.float64(14.0898461538461535)]

Conexion: x: [np.float64(-6.15094339622641), np.float64(-11.049180327868854)], y: [np.float64(-68.27924528301887), np.float64(-59.531615925058546)], z: [np.float64(1.95471698113208), np.float64(8.758782201405154)]

Conexion: x: [np.float64(-12.849816849816847), np.float64(-20.211009174311926)], y: [np.float64(-4

47008547008517), np.float64(0.673469387755091)], z: [np.float64(10.41880341880342), np.float64(13.132653061224488)]

Conexion: x: [np.float64(39.93162393162393), np.float64(49.80377358490566)], y: [np.float64(-3.8547008547008517), np.float64(-6.8452830188679314)], z: [np.float64(10.41880341880342), np.float64(11.607547169811326)]

Conexion: x: [np.float64(39.93162393162393), np.float64(48.87248322147651)], y: [np.float64(-3.8547008547008517), np.float64(-4.919463087248317)], z: [np.float64(10.41880341880342), np.float64(15.832214765100673)]

Conexion: x: [np.float64(39.93162393162393), np.float64(51.52873563218391)], y: [np.float64(-3.8547008547008517), np.float64(4.22988505747125)], z: [np.float64(10.41880341880342), np.float64(5.436781609195407)]

Conexion: x: [np.float64(36.21487603305785), np.float64(49.80377358490566)], y: [np.float64(-18.39694214876035), np.float64(-6.8452830188679314)], z: [np.float64(12.991735537190081), np.float64(11.607547169811326)]

Conexion: x: [np.float64(-7.096085409252666), np.float64(-6.15094339622641)], y: [np.float64(-78.46263345195729), np.float64(-68.27924528301887)], z: [np.float64(-3.893238434163706), np.float64(1.95471698113208)]

Conexion: x: [np.float64(-7.096085409252666), np.float64(-17.849315068493155)], y: [np.float64(-78.46263345195729), np.float64(-64.03424657534246)], z: [np.float64(-3.893238434163706), np.float64(-9.23287671232876)]

Conexion: x: [np.float64(-7.096085409252666), np.float64(14.772058823529406)], y: [np.float64(-78.46263345195729), np.float64(-81.13970588235294)], z: [np.float64(-3.893238434163706), np.float64(-3.272058823529406)]

Conexion: x: [np.float64(-7.096085409252666), np.float64(-4.228915662650607)], y: [np.float64(-78.46263345195729), np.float64(-88.43373493975903)], z: [np.float64(-3.893238434163706), np.float64(-8.289156626506028)]

Conexion: x: [np.float64(-7.096085409252666), np.float64(-2.046948356807505)], y: [np.float64(-78.46263345195729), np.float64(-86.7793427230047)], z: [np.float64(-3.893238434163706), np.float64(-0.10328634897652776)]

Conexion: x: [np.float64(-7.096085409252666), np.float64(16.34042553191489)], y: [np.float64(-78.46263345195729), np.float64(-79.55623100303951)], z: [np.float64(-3.893238434163706), np.float64(3.920972644376903)]

Conexion: x: [np.float64(-15.822784810126578), np.float64(-20.30901287553648)], y: [np.float64(-88.06751054852322), np.float64(-90.29184549356223)], z: [np.float64(-14.962025316455694), np.float64(-13.39055793991416)]

Conexion: x: [np.float64(-15.822784810126578), np.float64(22.268656716417908)], y: [np.float64(-88.06751054852322), np.float64(-82.38059701492537)], z: [np.float64(-14.962025316455694), np.float64(-0.102985074626865)]

Conexion: x: [np.float64(-15.822784810126578), np.float64(-5.340206185567013)], y: [np.float64(-88.06751054852322), np.float64(-97.74226804123711)], z: [np.float64(-14.962025316455694), np.float64(-7.948453608274719)]

Conexion: x: [np.float64(-19.91891891891892), np.float64(-6.15094339622641)], y: [np.float64(-68.44594594594594), np.float64(-68.27924528301887)], z: [np.float64(-2.804054054054049), np.float64(1.95

9.765567765567766), np.float64(-44.38532110091744)], z: [np.float64(-2.578754578754584), np.float64(-5.11009174311927)]

Conexion: x: [np.float64(-12.849816849816847), np.float64(17.61338289962825)], y: [np.float64(-49.765567765567766), np.float64(-49.29368029739777)], z: [np.float64(-2.578754578754584), np.float64(-0.3866171003717511)]

Conexion: x: [np.float64(-12.849816849816847), np.float64(10.36363636363636)], y: [np.float64(-49.765567765567766), np.float64(-46.96256684491979)], z: [np.float64(-2.578754578754584), np.float64(-1.1871657754010698)]

Conexion: x: [np.float64(-12.849816849816847), np.float64(-11.049180327868854)], y: [np.float64(-49.765567765567766), np.float64(-59.531615925058546)], z: [np.float64(-2.578754578754584), np.float64(4.8758782201405154)]

Conexion: x: [np.float64(-12.849816849816847), np.float64(-10.733668341708537)], y: [np.float64(-49.765567765567766), np.float64(-51.1608040201005)], z: [np.float64(-2.578754578754584), np.float64(11.32663316582915)]

Conexion: x: [np.float64(17.61338289962825), np.float64(10.36363636363636)], y: [np.float64(-49.29368029739777), np.float64(-46.96256684491979)], z: [np.float64(-0.3866171003717511), np.float64(-1.1871657754010698)]

Conexion: x: [np.float64(17.61338289962825), np.float64(20.512195121951223)], y: [np.float64(-49.29368029739777), np.float64(-47.84552845528455)], z: [np.float64(-0.3866171003717511), np.float64(-7.032520325203251)]

Conexion: x: [np.float64(17.61338289962825), np.float64(15.89970501749259)], y: [np.float64(-49.29368029739777), np.float64(-56.90265486725664)], z: [np.float64(-0.3866171003717511), np.float64(11.722713864306783)]

Conexion: x: [np.float64(17.61338289962825), np.float64(19.481707317073173)], y: [np.float64(-49.29368029739777), np.float64(-63.11585365853658)], z: [np.float64(-0.3866171003717511), np.float64(9.810975609756099)]

Conexion: x: [np.float64(10.4083044982699), np.float64(10.828767123287676)], y: [np.float64(-67.01038062283737), np.float64(-66.86986301369862)], z: [np.float64(1.993079584750886), np.float64(-6.55479420547944)]

Conexion: x: [np.float64(10.4083044982699), np.float64(10.36363636363636)], y: [np.float64(-67.01038062283737), np.float64(-46.96256684491979)], z: [np.float64(1.993079584750886), np.float64(-1.187165754010698)]

Conexion: x: [np.float64(10.4083044982699), np.float64(13.447204968944106)], y: [np.float64(-67.01038062283737), np.float64(-72.24844720496895)], z: [np.float64(1.993079584750886), np.float64(11.43782608695656)]

Conexion: x: [np.float64(10.4083044982699), np.float64(19.481707317073173)], y: [np.float64(-67.01038062283737), np.float64(-63.11585365853658)], z: [np.float64(1.993079584750886), np.float64(9.810975609756099)]

Conexion: x: [np.float64(16.131147540983605), np.float64(22.268656716417908)], y: [np.float64(-77.42295081967214), np.float64(-82.38059701492537)], z: [np.float64(-9.64590163934426), np.float64(-9.02985074626865)]

Conexion: x: [np.float64(16.131147540983605), np.float64(10.828767123287676)], y: [np.float64(-77.42295081967214), np.float64(-66.86986301369862)], z: [np.float64(-9.64590163934426), np.float64(-6.5

54794520547944]]
Conexion: x: [np.float64(16.131147540983605), np.float64(14.772058823529406)], y: [np.float64(-77.42295081967214), np.float64(-81.13970588235294)], z: [np.float64(-9.64590163934426), np.float64(-3.272058823529406)]
Conexion: x: [np.float64(22.268656716417908), np.float64(24.30232558139535)], y: [np.float64(-82.38059701492537), np.float64(-94.53488372093022)], z: [np.float64(-9.02985074626865), np.float64(-13.62790697674417)]
Conexion: x: [np.float64(22.268656716417908), np.float64(14.772058823529406)], y: [np.float64(-82.38059701492537), np.float64(-81.13970588235294)], z: [np.float64(-9.02985074626865), np.float64(-3.272058823529406)]
Conexion: x: [np.float64(22.268656716417908), np.float64(-23.0204081632653)], y: [np.float64(-82.38059701492537), np.float64(-93.23265306122448)], z: [np.float64(-9.02985074626865), np.float64(-8.78367346938775)]
Conexion: x: [np.float64(22.268656716417908), np.float64(-35.47490347490347)], y: [np.float64(-82.38059701492537), np.float64(-81.66795366795367)], z: [np.float64(-9.02985074626865), np.float64(-8.903474903474901)]
Conexion: x: [np.float64(22.268656716417908), np.float64(29.00456621004566)], y: [np.float64(-82.38059701492537), np.float64(-94.76712328767124)], z: [np.float64(-9.02985074626865), np.float64(-6.045662100456624)]
Conexion: x: [np.float64(22.268656716417908), np.float64(-24.0)], y: [np.float64(-82.38059701492537), np.float64(-94.2342342342424)], z: [np.float64(-9.02985074626865), np.float64(8.108108108108112)]
Conexion: x: [np.float64(22.268656716417908), np.float64(-33.08943089430895)], y: [np.float64(-82.38059701492537), np.float64(-85.9349593495935)], z: [np.float64(-9.02985074626865), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(22.268656716417908), np.float64(17.75)], y: [np.float64(-82.38059701492537), np.float64(-96.546875)], z: [np.float64(-9.02985074626865), np.float64(-0.75)]
Conexion: x: [np.float64(24.30232558139535), np.float64(29.00456621004566)], y: [np.float64(-94.53488372093022), np.float64(-94.76712328767124)], z: [np.float64(-13.662790697674417), np.float64(-6.045662100456624)]
Conexion: x: [np.float64(24.30232558139535), np.float64(17.75)], y: [np.float64(-94.53488372093022), np.float64(-96.546875)], z: [np.float64(-13.662790697674417), np.float64(-0.75)]
Conexion: x: [np.float64(20.512195121951223), np.float64(29.768115942028984)], y: [np.float64(-47.84552845528455), np.float64(-35.5555555555556)], z: [np.float64(-7.032520325203251), np.float64(-10.734299516908216)]
Conexion: x: [np.float64(14.772058823529406), np.float64(-4.228915662650607)], y: [np.float64(-81.13970588235294), np.float64(-88.43373493975903)], z: [np.float64(-3.272058823529406), np.float64(-8.289156626506082)]
Conexion: x: [np.float64(14.772058823529406), np.float64(-2.046948356807505)], y: [np.float64(-81.13970588235294), np.float64(-86.7793427230047)], z: [np.float64(-3.272058823529406), np.float64(-0.10328638497652776)]
Conexion: x: [np.float64(14.772058823529406), np.float64(16.34042553191489)], y: [np.float64(-81.13970588235294), np.float64(-79.55623100303951)], z: [np.float64(-3.272058823529406), np.float64(3.92

4070796460176), np.float64(-81.66795366795367)], z: [np.float64(-6.1061946902654824), np.float64(-8.903474903474901)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(44.294117647058826)], y: [np.float64(-73.84070796460176), np.float64(-72.38970588235294)], z: [np.float64(-6.1061946902654824), np.float64(-12.455882352941174)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(41.24528301886792)], y: [np.float64(-73.84070796460176), np.float64(-81.10188679245283)], z: [np.float64(-6.1061946902654824), np.float64(-5.992452830188682)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(-43.25552050473186)], y: [np.float64(-73.84070796460176), np.float64(-73.88643533123027)], z: [np.float64(-6.1061946902654824), np.float64(1.0977917981072522)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(43.25991189427313)], y: [np.float64(-73.84070796460176), np.float64(-77.040088105726872)], z: [np.float64(-6.1061946902654824), np.float64(3.709251101321584)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(-54.32075471698113)], y: [np.float64(-73.84070796460176), np.float64(-59.57232704402516)], z: [np.float64(-6.1061946902654824), np.float64(-10.33333333333336)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(50.76086956521739)], y: [np.float64(-73.84070796460176), np.float64(-63.91847826086956)], z: [np.float64(-6.1061946902654824), np.float64(-13.570652173913047)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(54.70918367346939)], y: [np.float64(-73.84070796460176), np.float64(-57.954088163265306)], z: [np.float64(-6.1061946902654824), np.float64(-8.25)]
Conexion: x: [np.float64(-35.47490347490347), np.float64(44.294117647058826)], y: [np.float64(-81.66795366795367), np.float64(-72.38970588235294)], z: [np.float64(-8.903474903474901), np.float64(-12.455882352941174)]
Conexion: x: [np.float64(-35.47490347490347), np.float64(34.86695278969957)], y: [np.float64(-81.66795366795367), np.float64(-87.2961373390558)], z: [np.float64(-8.903474903474901), np.float64(-11.133047210300433)]
Conexion: x: [np.float64(-35.47490347490347), np.float64(41.24528301886792)], y: [np.float64(-81.66795366795367), np.float64(-81.10188679245283)], z: [np.float64(-8.903474903474901), np.float64(-5.992452830188682)]
Conexion: x: [np.float64(-35.47490347490347), np.float64(-33.08943089430895)], y: [np.float64(-81.66795366795367), np.float64(-85.9349593495935)], z: [np.float64(-8.903474903474901), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(-35.47490347490347), np.float64(34.299065420560744)], y: [np.float64(-81.66795366795367), np.float64(-90.97196261682242)], z: [np.float64(-8.903474903474901), np.float64(2.485981308411212)]
Conexion: x: [np.float64(44.294117647058826), np.float64(41.24528301886792)], y: [np.float64(-72.38970588235294), np.float64(-81.10188679245283)], z: [np.float64(-12.455882352941174), np.float64(-5.992452830188682)]
Conexion: x: [np.float64(44.294117647058826), np.float64(-33.08943089430895)], y: [np.float64(-72.38970588235294), np.float64(-85.9349593495935)], z: [np.float64(-12.455882352941174), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(44.294117647058826), np.float64(41.24528301886792)], y: [np.float64(-72.38970588235294), np.float64(-81.10188679245283)], z: [np.float64(-12.455882352941174), np.float64(-5.992452830188682)]
Conexion: x: [np.float64(44.294117647058826), np.float64(-33.08943089430895)], y: [np.float64(-72.38970588235294), np.float64(-85.9349593495935)], z: [np.float64(-12.455882352941174), np.float64(-1.203252032520325)]

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Conexion: x: [np.float64(-46.71090047393366), np.float64(-42.68141592920355)], y: [np.float64(-67.260663507109), np.float64(-73.84070796460176)], z: [np.float64(-13.203791469194314), np.float64(-6.1061946902654824)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(-35.47490347490347)], y: [np.float64(-67.260663507109), np.float64(-81.66795366795367)], z: [np.float64(-13.203791469194314), np.float64(-8.903474903474901)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(44.294117647058826)], y: [np.float64(-67.260663507109), np.float64(-72.38970588235294)], z: [np.float64(-13.203791469194314), np.float64(-6.1061946902654824)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(41.24528301886792)], y: [np.float64(-67.260663507109), np.float64(-81.10188679245283)], z: [np.float64(-13.203791469194314), np.float64(-5.992452830188682)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(34.299065420560744)], y: [np.float64(-67.260663507109), np.float64(-90.97196261682242)], z: [np.float64(-13.203791469194314), np.float64(2.485981308411212)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(-54.32075471698113)], y: [np.float64(-67.260663507109), np.float64(-59.57232704402516)], z: [np.float64(-13.203791469194314), np.float64(-10.33333333333336)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(50.76086956521739)], y: [np.float64(-67.260663507109), np.float64(-63.91847826086956)], z: [np.float64(-13.203791469194314), np.float64(-13.570652173913047)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(-35.47490347490347)], y: [np.float64(-93.23265306122448), np.float64(-81.66795366795367)], z: [np.float64(-8.78367346938775), np.float64(-8.903474903474901)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(29.00456621004566)], y: [np.float64(-93.23265306122448), np.float64(-94.76712328767124)], z: [np.float64(-8.78367346938775), np.float64(-6.045662100456624)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(34.86695278969957)], y: [np.float64(-93.23265306122448), np.float64(-87.2961373390558)], z: [np.float64(-8.78367346938775), np.float64(-11.133047210300433)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(-21.496855345911953)], y: [np.float64(-93.23265306122448), np.float64(-93.9496855345912)], z: [np.float64(-8.78367346938775), np.float64(-2.289308176100633)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(-33.08943089430895)], y: [np.float64(-93.23265306122448), np.float64(-85.9349593495935)], z: [np.float64(-8.78367346938775), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(-7.822222222222223)], y: [np.float64(-93.23265306122448), np.float64(-100.41111111111111)], z: [np.float64(-8.78367346938775), np.float64(-1.377777777777778)]
Conexion: x: [np.float64(-46.71090047393366), np.float64(17.75)], y: [np.float64(-93.23265306122448), np.float64(-96.546875)], z: [np.float64(-8.78367346938775), np.float64(-0.75)]
Conexion: x: [np.float64(-42.68141592920355), np.float64(-35.47490347490347)], y: [np.float64(-73.8

203252032520325]]
Conexion: x: [np.float64(44.294117647058826), np.float64(34.299065420560744)], y: [np.float64(-72.38970588235294), np.float64(-90.97196261682242)], z: [np.float64(-12.455882352941174), np.float64(2.485981308411212)]
Conexion: x: [np.float64(44.294117647058826), np.float64(50.76086956521739)], y: [np.float64(-72.38970588235294), np.float64(-63.91847826086956)], z: [np.float64(-12.455882352941174), np.float64(-13.570652173913047)]
Conexion: x: [np.float64(29.00456621004566), np.float64(34.86695278969957)], y: [np.float64(-94.76712328767124), np.float64(-87.2961373390558)], z: [np.float64(-6.045662100456624), np.float64(-11.133047210300433)]
Conexion: x: [np.float64(29.00456621004566), np.float64(-21.496855345911953)], y: [np.float64(-94.76712328767124), np.float64(-93.9496855345912)], z: [np.float64(-6.045662100456624), np.float64(-2.289308176100633)]
Conexion: x: [np.float64(29.00456621004566), np.float64(-33.08943089430895)], y: [np.float64(-94.76712328767124), np.float64(-85.9349593495935)], z: [np.float64(-6.045662100456624), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(29.00456621004566), np.float64(34.299065420560744)], y: [np.float64(-94.76712328767124), np.float64(-90.97196261682242)], z: [np.float64(-6.045662100456624), np.float64(2.485981308411212)]
Conexion: x: [np.float64(29.00456621004566), np.float64(17.75)], y: [np.float64(-94.76712328767124), np.float64(-96.546875)], z: [np.float64(-6.045662100456624), np.float64(-0.75)]
Conexion: x: [np.float64(34.86695278969957), np.float64(41.24528301886792)], y: [np.float64(-87.2961373390558), np.float64(-81.10188679245283)], z: [np.float64(-11.133047210300433), np.float64(-5.992452830188682)]
Conexion: x: [np.float64(34.86695278969957), np.float64(-33.08943089430895)], y: [np.float64(-87.2961373390558), np.float64(-85.9349593495935)], z: [np.float64(-11.133047210300433), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(41.24528301886792), np.float64(-33.76699092126213)], y: [np.float64(-81.10188679245283), np.float64(-86.8252427184466)], z: [np.float64(-5.992452830188682), np.float64(6.728155339805824)]
Conexion: x: [np.float64(41.24528301886792), np.float64(-43.25552050473186)], y: [np.float64(-81.10188679245283), np.float64(-73.88643533123027)], z: [np.float64(-5.992452830188682), np.float64(1.0977917981072522)]
Conexion: x: [np.float64(41.24528301886792), np.float64(-33.08943089430895)], y: [np.float64(-81.10188679245283), np.float64(-85.9349593495935)], z: [np.float64(-5.992452830188682), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(41.24528301886792), np.float64(43.25991189427313)], y: [np.float64(-81.10188679245283), np.float64(-63.91847826086956)], z: [np.float64(-5.992452830188682), np.float64(-13.570652173913047)]
Conexion: x: [np.float64(41.24528301886792), np.float64(-24.0)], y: [np.float64(-94.2342342342342

4)], np.float64(-88.96678966789668)], z: [np.float64(8.108108108108112), np.float64(15.9409594095941)]
Conexion: x: [np.float64(-24.0), np.float64(-33.76699029126213)], y: [np.float64(-94.23423423423424), np.float64(-86.8252427184466)], z: [np.float64(8.108108108108112), np.float64(6.728155339805824)]
Conexion: x: [np.float64(-24.0), np.float64(-16.75)], y: [np.float64(-94.23423423423424), np.float64(4(-100.61363636363636)], z: [np.float64(8.108108108112), np.float64(3.3409090909090935)]
Conexion: x: [np.float64(-24.0), np.float64(-21.496855345911953)], y: [np.float64(-94.23423423423424), np.float64(-93.9496855345912)], z: [np.float64(8.108108108108112), np.float64(-2.289308176100633)]
Conexion: x: [np.float64(-24.0), np.float64(-33.08943089430895)], y: [np.float64(-94.23423423423424), np.float64(-85.9349593495935)], z: [np.float64(8.108108108108112), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(-24.0), np.float64(30.230483271375462)], y: [np.float64(-94.23423423423424), np.float64(-91.25650557620818)], z: [np.float64(8.108108108108112), np.float64(10.342007434944236)]
Conexion: x: [np.float64(-24.0), np.float64(34.299065420560744)], y: [np.float64(-94.23423423423424), np.float64(-90.97196261682242)], z: [np.float64(8.108108108108112), np.float64(2.485981308411212)]
Conexion: x: [np.float64(-24.0), np.float64(-12.970464135021103)], y: [np.float64(-94.23423423423424), np.float64(-95.39240506329114)], z: [np.float64(8.108108108108112), np.float64(9.232067510548518)]
Conexion: x: [np.float64(-24.0), np.float64(23.755319148936167)], y: [np.float64(-94.23423423423424), np.float64(-90.56382978723404)], z: [np.float64(8.108108108108112), np.float64(12.031914893617028)]
Conexion: x: [np.float64(-24.0), np.float64(17.75)], y: [np.float64(-94.23423423423424), np.float64(-96.546875)], z: [np.float64(8.108108108108112), np.float64(-0.75)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(-33.76699029126213)], y: [np.float64(-88.96678966789668), np.float64(-86.8252427184466)], z: [np.float64(15.9409594095941), np.float64(6.728155339805824)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(-34.6283185840708)], y: [np.float64(-88.96678966789668), np.float64(-81.83185840707964)], z: [np.float64(15.9409594095941), np.float64(20.78761061946902)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(38.536)], y: [np.float64(-88.96678966789668), np.float64(-80.904)], z: [np.float64(15.9409594095941), np.float64(19.647999999999996)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(30.230483271375462)], y: [np.float64(-88.96678966789668), np.float64(-91.25650557620818)], z: [np.float64(15.9409594095941), np.float64(10.342007434944236)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(31.592727272727274)], y: [np.float64(-88.96678966789668), np.float64(-82.64)], z: [np.float64(15.9409594095941), np.float64(25.10545454545455)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(-14.915254237288138)], y: [np.float64(-88.96678966789668), np.float64(-87.2813593220338)], z: [np.float64(15.9409594095941), np.float64(2

Conexion: x: [np.float64(-43.25552050473186), np.float64(50.760886956521739)], y: [np.float64(-73.88643533123027), np.float64(-63.91847826086956)], z: [np.float64(1.0977917981072522), np.float64(-13.570652173913047)]
Conexion: x: [np.float64(-43.25552050473186), np.float64(-48.180257510729604)], y: [np.float64(-73.88643533123027), np.float64(-65.76824034334764)], z: [np.float64(1.0977917981072522), np.float64(4.472103004291839)]
Conexion: x: [np.float64(-43.25552050473186), np.float64(52.00892857142857)], y: [np.float64(-73.88643533123027), np.float64(-62.49107142857143)], z: [np.float64(1.0977917981072522), np.float64(1.4464285714285694)]
Conexion: x: [np.float64(-43.25552050473186), np.float64(47.43873517786561)], y: [np.float64(-73.88643533123027), np.float64(-69.7707598814228)], z: [np.float64(1.0977917981072522), np.float64(5.011857707509876)]
Conexion: x: [np.float64(-42.56050955414014), np.float64(-37.365187713310576)], y: [np.float64(-73.64968152866243), np.float64(-73.20819112627987)], z: [np.float64(1.0977917981072522), np.float64(28.51194539249147)]
Conexion: x: [np.float64(-42.56050955414014), np.float64(-48.180257510729604)], y: [np.float64(-73.64968152866243), np.float64(-65.76824034334764)], z: [np.float64(15.076433121019107), np.float64(4.472103004291839)]
Conexion: x: [np.float64(-42.56050955414014), np.float64(-44.478048780487796)], y: [np.float64(-73.64968152866243), np.float64(-66.79024390243902)], z: [np.float64(15.076433121019107), np.float64(17.014634146341464)]
Conexion: x: [np.float64(-42.56050955414014), np.float64(47.654901960784315)], y: [np.float64(-73.64968152866243), np.float64(-68.116740795882354)], z: [np.float64(15.076433121019107), np.float64(16.572549019607848)]
Conexion: x: [np.float64(-42.56050955414014), np.float64(47.43873517786561)], y: [np.float64(-73.64968152866243), np.float64(-69.7707598814228)], z: [np.float64(15.076433121019107), np.float64(5.011857707509876)]
Conexion: x: [np.float64(-16.75), np.float64(-21.496855345911953)], y: [np.float64(-100.61363636363636), np.float64(-93.9496855345912)], z: [np.float64(3.3409090909090935), np.float64(-2.289308176100633)]
Conexion: x: [np.float64(-16.75), np.float64(-12.970464135021103)], y: [np.float64(-100.61363636363636), np.float64(-95.39240506329114)], z: [np.float64(3.3409090909090935), np.float64(9.232067510548518)]
Conexion: x: [np.float64(-16.75), np.float64(-7.82222222222223)], y: [np.float64(-100.61363636363636), np.float64(-100.41111111111111)], z: [np.float64(3.3409090909090935), np.float64(-1.377777777777778)]
Conexion: x: [np.float64(-16.75), np.float64(17.75)], y: [np.float64(-100.61363636363636), np.float64(4(-96.546875)], z: [np.float64(3.3409090909090935), np.float64(-0.75)]
Conexion: x: [np.float64(-21.496855345911953), np.float64(34.299065420560744)], y: [np.float64(-93.9496855345912), np.float64(-90.97196261682242)], z: [np.float64(-2.289308176100633), np.float64(2.485981308411212)]
Conexion: x: [np.float64(-21.496855345911953), np.float64(-7.82222222222223)], y: [np.float64(-93.9496855345912), np.float64(-100.41111111111111)], z: [np.float64(-2.289308176100633), np.float64(-

0.88813559322034)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(-22.41106719367589)], y: [np.float64(-88.96678966789668), np.float64(-84.95652173913044)], z: [np.float64(15.9409594095941), np.float64(28.743083003952563)]
Conexion: x: [np.float64(-25.911439114391143), np.float64(23.755319148936167)], y: [np.float64(-88.96678966789668), np.float64(-90.56382978723404)], z: [np.float64(15.9409594095941), np.float64(12.031914893617028)]
Conexion: x: [np.float64(-33.76699029126213), np.float64(-38.71111111111111)], y: [np.float64(-86.8252427184466), np.float64(-81.7688888888888)], z: [np.float64(6.728155339805824), np.float64(10.37333333333333)]
Conexion: x: [np.float64(-33.76699029126213), np.float64(-33.08943089430895)], y: [np.float64(-86.8252427184466), np.float64(-85.9349593495935)], z: [np.float64(6.728155339805824), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(-33.76699029126213), np.float64(30.230483271375462)], y: [np.float64(-86.8252427184466), np.float64(-91.25650557620818)], z: [np.float64(6.728155339805824), np.float64(10.342007434944236)]
Conexion: x: [np.float64(-33.76699029126213), np.float64(34.299065420560744)], y: [np.float64(-86.8252427184466), np.float64(-90.97196261682242)], z: [np.float64(6.728155339805824), np.float64(2.485981308411212)]
Conexion: x: [np.float64(-33.76699029126213), np.float64(23.755319148936167)], y: [np.float64(-86.8252427184466), np.float64(-90.56382978723404)], z: [np.float64(6.728155339805824), np.float64(12.031914893617028)]
Conexion: x: [np.float64(-38.71111111111111), np.float64(-43.25552050473186)], y: [np.float64(-81.7688888888888), np.float64(-73.88643533123027)], z: [np.float64(10.373333333333335), np.float64(1.0977917981072522)]
Conexion: x: [np.float64(-38.71111111111111), np.float64(-42.56050955414014)], y: [np.float64(-81.7688888888888), np.float64(-73.64968152866243)], z: [np.float64(10.373333333333335), np.float64(15.076433121019107)]
Conexion: x: [np.float64(-38.71111111111111), np.float64(43.25991189427313)], y: [np.float64(-81.7688888888888), np.float64(-77.40088105726872)], z: [np.float64(10.373333333333335), np.float64(3.709251101321584)]
Conexion: x: [np.float64(-38.71111111111111), np.float64(40.752066115702476)], y: [np.float64(-81.7688888888888), np.float64(-79.79338842975207)], z: [np.float64(10.373333333333335), np.float64(11.95867768595042)]
Conexion: x: [np.float64(-43.25552050473186), np.float64(-42.56050955414014)], y: [np.float64(-73.88643533123027), np.float64(-73.64968152866243)], z: [np.float64(1.0977917981072522), np.float64(15.076433121019107)]
Conexion: x: [np.float64(-43.25552050473186), np.float64(-33.08943089430895)], y: [np.float64(-73.88643533123027), np.float64(-85.9349593495935)], z: [np.float64(1.0977917981072522), np.float64(-1.203252032520325)]
Conexion: x: [np.float64(-43.25552050473186), np.float64(43.25991189427313)], y: [np.float64(-73.88643533123027), np.float64(-77.40088105726872)], z: [np.float64(1.0977917981072522), np.float64(3.709251101321584)]

1.377777777777778)]
Conexion: x: [np.float64(-21.496855345911953), np.float64(17.75)], y: [np.float64(-93.9496855345912), np.float64(-96.546875)], z: [np.float64(-2.289308176100633), np.float64(-0.75)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(-32.23178807947019)], y: [np.float64(-78.23003194888179), np.float64(-73.28476821192052)], z: [np.float64(31.463258785942486), np.float64(34.90066225165563)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(-34.6283185840708)], y: [np.float64(-78.23003194888179), np.float64(-81.83185840707964)], z: [np.float64(31.463258785942486), np.float64(20.78761061946902)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(31.592727272727274)], y: [np.float64(-78.23003194888179), np.float64(-82.64)], z: [np.float64(31.463258785942486), np.float64(25.10545454545455)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(34.299065420560744)], y: [np.float64(-78.23003194888179), np.float64(-90.97196261682242)], z: [np.float64(31.463258785942486), np.float64(2.485981308411212)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(35.75460122699386)], y: [np.float64(-78.23003194888179), np.float64(-76.60736196319019)], z: [np.float64(31.463258785942486), np.float64(34.2515374233129)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(-17.156549520766774)], y: [np.float64(-78.23003194888179), np.float64(-79.09265175718849)], z: [np.float64(31.463258785942486), np.float64(40.626198083067095)]
Conexion: x: [np.float64(-27.322683706070293), np.float64(-22.41106719367589)], y: [np.float64(-78.23003194888179), np.float64(-84.95652173913044)], z: [np.float64(31.463258785942486), np.float64(28.743083003952563)]
Conexion: x: [np.float64(-37.365187713310576), np.float64(-32.23178807947019)], y: [np.float64(-73.20819112627987), np.float64(-73.28476821192052)], z: [np.float64(28.51194539249147), np.float64(34.90066225165563)]
Conexion: x: [np.float64(-37.365187713310576), np.float64(-34.6283185840708)], y: [np.float64(-73.20819112627987), np.float64(-81.83185840707964)], z: [np.float64(31.46325878594249147), np.float64(20.78761061946902)]
Conexion: x: [np.float64(-32.23178807947019), np.float64(35.75460122699386)], y: [np.float64(-73.28476821192052), np.float64(-76.60736196319019)], z: [np.float64(34.90066225165563), np.float64(34.2515374233129)]
Conexion: x: [np.float64(-32.23178807947019), np.float64(-17.156549520766774)], y: [np.float64(-73.28476821192052), np.float64(-79.09265175718849)], z: [np.float64(34.90066225165563), np.float64(40.626198083067095)]
Conexion: x: [np.float64(-32.23178807947019), np.float64(-30.609970674486803)], y: [np.float64(-73.28476821192052), np.float64(-64.96774193548387)], z: [np.float64(34.90066225165563), np.float64(43.313782991202345)]
Conexion: x: [np.float64(-34.6283185840708), np.float64(38.536)], y: [np.float64(-81.83185840707964), np.float64(-80.904)], z: [np.float64(20.78761061946902), np.float64(19.647999999999996)]
Conexion: x: [np.float64(-34.6283185840708), np.float64(31.592727272727274)], y: [np.float64(-81.83185840707964), np.float64(-82.64)], z: [np.float64(20.78761061946902), np.float64(25.105454545454545

5)]

Conexion: x: [np.float64(-33.08943089430895), np.float64(30.230483271375462)], y: [np.float64(-85.9349593495935), np.float64(-91.25650557620818)], z: [np.float64(-1.203252032520325), np.float64(10.342007434944236)]

Conexion: x: [np.float64(-33.08943089430895), np.float64(34.299065420560744)], y: [np.float64(-85.9349593495935), np.float64(-90.97196261682242)], z: [np.float64(-1.203252032520325), np.float64(2.485981308411212)]

Conexion: x: [np.float64(38.536), np.float64(30.230483271375462)], y: [np.float64(-80.904), np.float64(-91.25650557620818)], z: [np.float64(19.647999999999996), np.float64(10.342007434944236)]

Conexion: x: [np.float64(38.536), np.float64(40.752066115702476)], y: [np.float64(-80.904), np.float64(10.342007434944236)], z: [np.float64(19.647999999999996), np.float64(11.95867768595042)]

Conexion: x: [np.float64(38.536), np.float64(31.592727272727274)], y: [np.float64(-80.904), np.float64(10.342007434944236)], z: [np.float64(19.647999999999996), np.float64(25.10545454545455)]

Conexion: x: [np.float64(38.536), np.float64(43.26101694915254)], y: [np.float64(-80.904), np.float64(10.342007434944236)], z: [np.float64(19.647999999999996), np.float64(26.69152542372882)]

Conexion: x: [np.float64(38.536), np.float64(-22.41106719367589)], y: [np.float64(-80.904), np.float64(10.342007434944236)], z: [np.float64(19.647999999999996), np.float64(28.743083003952563)]

Conexion: x: [np.float64(38.536), np.float64(-16.52233676975945)], y: [np.float64(-80.904), np.float64(10.342007434944236)], z: [np.float64(19.647999999999996), np.float64(51.02405498281787)]

Conexion: x: [np.float64(30.230483271375462), np.float64(40.752066115702476)], y: [np.float64(-91.25650557620818), np.float64(-79.79338842975207)], z: [np.float64(10.342007434944236), np.float64(11.95867768595042)]

Conexion: x: [np.float64(30.230483271375462), np.float64(31.592727272727274)], y: [np.float64(-91.25650557620818), np.float64(-82.64)], z: [np.float64(10.342007434944236), np.float64(25.10545454545455)]

Conexion: x: [np.float64(30.230483271375462), np.float64(34.299065420560744)], y: [np.float64(-91.25650557620818), np.float64(-90.97196261682242)], z: [np.float64(10.342007434944236), np.float64(2.485981308411212)]

Conexion: x: [np.float64(30.230483271375462), np.float64(23.755319148936167)], y: [np.float64(-91.25650557620818), np.float64(-90.97196261682242)], z: [np.float64(10.342007434944236), np.float64(12.031914893617028)]

Conexion: x: [np.float64(43.25991189427313), np.float64(40.752066115702476)], y: [np.float64(-77.40088105726872), np.float64(-79.79338842975207)], z: [np.float64(3.709251101321584), np.float64(11.95867768595042)]

Conexion: x: [np.float64(43.25991189427313), np.float64(-48.180257510729604)], y: [np.float64(-77.40088105726872), np.float64(-65.76824034334764)], z: [np.float64(3.709251101321584), np.float64(4.472103004291839)]

Conexion: x: [np.float64(43.25991189427313), np.float64(47.43873517786561)], y: [np.float64(-77.40088105726872), np.float64(-69.77075098814228)], z: [np.float64(3.709251101321584), np.float64(5.01185770509876)]

Conexion: x: [np.float64(40.752066115702476), np.float64(47.43873517786561)], y: [np.float64(-79.79338842975207), np.float64(-69.77075098814228)], z: [np.float64(11.95867768595042), np.float64(5.01185770509876)]

3507462686567)], np.float64(-84.95652173913044)], z: [np.float64(31.13432835820896), np.float64(28.743083003952563)]

Conexion: x: [np.float64(-17.156549520766774), np.float64(23.73553719008264)], y: [np.float64(-79.09265175718849), np.float64(-82.31404958677686)], z: [np.float64(40.626198083067095), np.float64(35.719008264462815)]

Conexion: x: [np.float64(-17.156549520766774), np.float64(28.164556962025316)], y: [np.float64(-79.09265175718849), np.float64(-74.22151898734177)], z: [np.float64(40.626198083067095), np.float64(42.46835443037975)]

Conexion: x: [np.float64(-17.156549520766774), np.float64(-21.245283018867923)], y: [np.float64(-79.09265175718849), np.float64(-72.15849056603773)], z: [np.float64(40.626198083067095), np.float64(45.41132075471698)]

Conexion: x: [np.float64(-22.41106719367589), np.float64(23.73553719008264)], y: [np.float64(-84.95652173913044), np.float64(-82.31404958677686)], z: [np.float64(28.743083003952563), np.float64(35.719008264462815)]

Conexion: x: [np.float64(-22.41106719367589), np.float64(25.77477477477477)], y: [np.float64(-84.95652173913044), np.float64(-82.8018018018018)], z: [np.float64(28.743083003952563), np.float64(25.810810810810807)]

Conexion: x: [np.float64(45.688), np.float64(38.71774193548387)], y: [np.float64(-59.272000000000006), np.float64(-62.87903225806451)], z: [np.float64(43.616), np.float64(46.99193548387096)]

Conexion: x: [np.float64(45.688), np.float64(47.49612403100775)], y: [np.float64(-59.272000000000006), np.float64(-51.480620155038764)], z: [np.float64(43.616), np.float64(46.52713178294573)]

Conexion: x: [np.float64(45.688), np.float64(50.95967741935484)], y: [np.float64(-59.272000000000006), np.float64(-51.2258064516129)], z: [np.float64(43.616), np.float64(40.55645161290323)]

Conexion: x: [np.float64(42.96234309623431), np.float64(48.055335968379445)], y: [np.float64(-67.42259414225941), np.float64(-63.22529644368775)], z: [np.float64(32.710460251046025), np.float64(32.3794466403162)]

Conexion: x: [np.float64(48.055335968379445), np.float64(50.92134831460674)], y: [np.float64(-63.22529644268775), np.float64(-57.54307116104869)], z: [np.float64(32.3794466403162), np.float64(26.32958801498127)]

Conexion: x: [np.float64(34.68376068376068), np.float64(38.71774193548387)], y: [np.float64(-67.8415384615384), np.float64(-62.87903225806451)], z: [np.float64(44.92307692307692), np.float64(46.99193548387096)]

Conexion: x: [np.float64(34.68376068376068), np.float64(28.164556962025316)], y: [np.float64(-67.8415384615384), np.float64(-74.22151898734177)], z: [np.float64(44.92307692307692), np.float64(42.46835443037975)]

Conexion: x: [np.float64(34.68376068376068), np.float64(-37.10914454277287)], y: [np.float64(-67.8415384615384), np.float64(-55.687315634218294)], z: [np.float64(44.92307692307692), np.float64(52.60769616519175)]

Conexion: x: [np.float64(34.68376068376068), np.float64(-30.609970674486803)], y: [np.float64(-67.8415384615384), np.float64(-64.96774193548387)], z: [np.float64(43.719008264462815), np.float64(43.313782991202345)]

Conexion: x: [np.float64(34.68376068376068), np.float64(-30.687074829931973)], y: [np.float64(-67.8415384615384), np.float64(-61.74829931972789)], z: [np.float64(44.92307692307692), np.float64(53.25170068027211)]

Conexion: x: [np.float64(31.592727272727274), np.float64(35.75460122699386)], y: [np.float64(-82.64), np.float64(-76.60736196319019)], z: [np.float64(25.10545454545455), np.float64(34.25153374233129)]

Conexion: x: [np.float64(31.592727272727274), np.float64(-22.41106719367589)], y: [np.float64(-82.64), np.float64(-84.95652173913044)], z: [np.float64(25.10545454545455), np.float64(28.743083003952563)]

Conexion: x: [np.float64(31.592727272727274), np.float64(25.774774774774777)], y: [np.float64(-82.64), np.float64(-82.8018018018018)], z: [np.float64(25.10545454545455), np.float64(25.810810810810807)]

Conexion: x: [np.float64(34.299065420560744), np.float64(50.76086956521739)], y: [np.float64(-90.9719626182242), np.float64(-63.91847826086956)], z: [np.float64(34.25153374233129), np.float64(-13.570652173913047)]

Conexion: x: [np.float64(35.75460122699386), np.float64(43.26101694915254)], y: [np.float64(-76.60736196319019), np.float64(-71.5322033898305)], z: [np.float64(34.25153374233129), np.float64(26.69152542372882)]

Conexion: x: [np.float64(35.75460122699386), np.float64(-17.156549520766774)], y: [np.float64(-76.60736196319019), np.float64(-79.09265175718849)], z: [np.float64(34.25153374233129), np.float64(40.626198083067095)]

Conexion: x: [np.float64(35.75460122699386), np.float64(-22.41106719367589)], y: [np.float64(-76.60736196319019), np.float64(-84.95652173913044)], z: [np.float64(34.25153374233129), np.float64(28.743083003952563)]

Conexion: x: [np.float64(35.75460122699386), np.float64(28.164556962025316)], y: [np.float64(-76.60736196319019), np.float64(-74.22151898734177)], z: [np.float64(34.25153374233129), np.float64(42.46835443037975)]

Conexion: x: [np.float64(35.75460122699386), np.float64(-16.52233676975945)], y: [np.float64(-76.60736196319019), np.float64(-72.24742268041237)], z: [np.float64(34.25153374233129), np.float64(51.02405498281787)]

Conexion: x: [np.float64(35.75460122699386), np.float64(-21.245283018867923)], y: [np.float64(-76.60736196319019), np.float64(-72.15849056603773)], z: [np.float64(34.25153374233129), np.float64(45.41132075471698)]

Conexion: x: [np.float64(-12.970464135021103), np.float64(-14.915254237288138)], y: [np.float64(-95.39240506329114), np.float64(-87.28135593220338)], z: [np.float64(9.230267510548518), np.float64(20.88813559322034)]

Conexion: x: [np.float64(-14.915254237288138), np.float64(-16.328358208955223)], y: [np.float64(-87.28135593220338), np.float64(-83.3507462686567)], z: [np.float64(20.88813559322034), np.float64(31.13432835820896)]

Conexion: x: [np.float64(-14.915254237288138), np.float64(-22.41106719367589)], y: [np.float64(-87.28135593220338), np.float64(-84.95652173913044)], z: [np.float64(20.88813559322034), np.float64(28.743083003952563)]

Conexion: x: [np.float64(-14.915254237288138), np.float64(21.687763713080173)], y: [np.float64(-87.28135593220338), np.float64(-63.91843459915612)], z: [np.float64(20.88813559322034), np.float64(22.599156118143455)]

Conexion: x: [np.float64(-16.328358208955223), np.float64(-22.41106719367589)], y: [np.float64(-83.3507462686567), np.float64(-84.95652173913044)], z: [np.float64(20.88813559322034), np.float64(28.743083003952563)]

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Conexion: x: [np.float64(34.68376068376068), np.float64(28.980237154150196)], y: [np.float64(-67.8415384615384), np.float64(-69.12252964426878)], z: [np.float64(44.92307692307692), np.float64(52.6077470355731)]

Conexion: x: [np.float64(50.92134831460674), np.float64(53.93869731800766)], y: [np.float64(-57.54307116104869), np.float64(-51.831417624521066)], z: [np.float64(44.92307692307692), np.float64(31.47892720306514)]

Conexion: x: [np.float64(50.92134831460674), np.float64(51.20987654320987)], y: [np.float64(-57.54307116104869), np.float64(-60.59259259259259)], z: [np.float64(26.32958801498127), np.float64(18.28065843621396)]

Conexion: x: [np.float64(38.71774193548387), np.float64(-37.10914454277287)], y: [np.float64(-62.87903225806451), np.float64(-55.687315634218294)], z: [np.float64(46.99193548387096), np.float64(52.60769616519175)]

Conexion: x: [np.float64(38.71774193548387), np.float64(-30.609970674486803)], y: [np.float64(-62.87903225806451), np.float64(-64.96774193548387)], z: [np.float64(46.99193548387096), np.float64(43.313782991202345)]

Conexion: x: [np.float64(38.71774193548387), np.float64(39.96969696969697)], y: [np.float64(-62.87903225806451), np.float64(-53.29090909090909)], z: [np.float64(46.99193548387096), np.float64(51.818181818181)]

Conexion: x: [np.float64(38.71774193548387), np.float64(-30.687074829931973)], y: [np.float64(-62.87903225806451), np.float64(-61.74829931972789)], z: [np.float64(46.99193548387096), np.float64(53.25170068027211)]

Conexion: x: [np.float64(53.93869731800766), np.float64(50.95967741935484)], y: [np.float64(-51.831417624521066), np.float64(-51.2258064516129)], z: [np.float64(31.47892720306514), np.float64(40.55645161290323)]

Conexion: x: [np.float64(53.93869731800766), np.float64(56.66914498141264)], y: [np.float64(-51.831417624521066), np.float64(-44.75836431262766)], z: [np.float64(31.47892720306514), np.float64(31.36059479553903)]

Conexion: x: [np.float64(21.687763713080173), np.float64(23.755319148936167)], y: [np.float64(-83.18143459915612), np.float64(-90.56382978723404)], z: [np.float64(22.599156118143455), np.float64(12.031914893617028)]

Conexion: x: [np.float64(18.692307692307693), np.float64(23.73553719008264)], y: [np.float64(-84.91346153846155), np.float64(-82.31404958677686)], z: [np.float64(28.557692307692307), np.float64(35.719008264462815)]

Conexion: x: [np.float64(18.692307692307693), np.float64(25.774774774774777)], y: [np.float64(-84.91346153846155), np.float64(-82.8018018018018)], z: [np.float64(28.557692307692307), np.float64(25.8108108108087)]

Conexion: x: [np.float64(23.73553719008264), np.float64(28.164556962025316)], y: [np.float64(-82.31404958677686), np.float64(-74.22151898734177)], z: [np.float64(35.719008264462815), np.float64(42.46835443037975)]

Conexion: x: [np.float64(23.73553719008264), np.float64(25.774774774774777)], y: [np.float64(-82.31404958677686), np.float64(-82.8018018018018)], z: [np.float64(35.719008264462815), np.float64(25.8108108108087)]

Conexion: x: [np.float64(28.164556962025316), np.float64(-21.245283018867923)], y: [np.float64(-74.22151898734177), np.float64(-72.15849056603773)], z: [np.float64(42.46835443037975), np.float64(45.41132075471698)]

Conexion: x: [np.float64(28.164556962025316), np.float64(28.980237154150196)], y: [np.float64(-74.22151898734177), np.float64(-69.12252964426878)], z: [np.float64(42.46835443037975), np.float64(52.26877470355731)]

Conexion: x: [np.float64(28.164556962025316), np.float64(18.546218487394952)], y: [np.float64(-74.22151898734177), np.float64(-73.25210084033614)], z: [np.float64(42.46835443037975), np.float64(50.50420168067227)]

Conexion: x: [np.float64(23.755319148936167), np.float64(17.75)], y: [np.float64(-90.56382978723404), np.float64(-96.546875)], z: [np.float64(12.031914893617028), np.float64(-0.75)]

Conexion: x: [np.float64(-8.26428571428572), np.float64(-6.772455089820355)], y: [np.float64(13.864285714285728), np.float64(22.101796407185617)], z: [np.float64(-12.685714285714283), np.float64(-19.203592814371255)]

Conexion: x: [np.float64(-8.26428571428572), np.float64(-7.402390438247011)], y: [np.float64(13.864285714285728), np.float64(14.446215139442245)], z: [np.float64(-12.685714285714283), np.float64(-4.5179282868525945)]

Conexion: x: [np.float64(10.124567474048447), np.float64(9.24897959183673)], y: [np.float64(14.664359861591691), np.float64(11.983673469387753)], z: [np.float64(-12.56053633217992), np.float64(1.3632653061224431)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(20.921428571428578)], y: [np.float64(-1.3583617747440258), np.float64(-1.057142857142864)], z: [np.float64(-1.0443686006825885), np.float64(-1.085714285714289)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-24.06037735849057)], y: [np.float64(-1.3583617747440258), np.float64(4.77735849056603)], z: [np.float64(-1.0443686006825885), np.float64(8.037735849056602)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-26.297709923664115)], y: [np.float64(-1.3583617747440258), np.float64(2.015267175572518)], z: [np.float64(-1.0443686006825885), np.float64(-4.480916030534345)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-18.97637795275591)], y: [np.float64(-1.3583617747440258), np.float64(12.84251968059377)], z: [np.float64(-1.0443686006825885), np.float64(-3.055118110236222)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-27.807017543859644)], y: [np.float64(-1.3583617747440258), np.float64(-10.66666666666671)], z: [np.float64(-1.0443686006825885), np.float64(413.94736842105263)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(25.544117647058826)], y: [np.float64(-1.3583617747440258), np.float64(5.330882352941188)], z: [np.float64(-1.0443686006825885), np.float64(2.286764705882348)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-5.765957446808514)], y: [np.float64(-1.3583617747440258), np.float64(-1.9716312056737593)], z: [np.float64(-1.0443686006825885), np.float64(50.99290780141844)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-3.75)], y: [np.float64(-1.3583617747440258), np.float64(-2.146551724137936)], z: [np.float64(-1.0443686006825885), np.float64(62.7586206896

55174)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-7.229090909090914)], y: [np.float64(-1.3583617747440258), np.float64(-22.814545454545453)], z: [np.float64(-1.0443686006825885), np.float64(4.465454545454545)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-14.693140794223822)], y: [np.float64(-1.3583617747440258), np.float64(-15.653429602880802)], z: [np.float64(-1.0443686006825885), np.float64(47.812274368231044)]

Conexion: x: [np.float64(-18.061433447098977), np.float64(-7.268656716417908)], y: [np.float64(-1.3583617747440258), np.float64(-11.007462686567166)], z: [np.float64(-1.0443686006825885), np.float64(5.597014925373131)]

Conexion: x: [np.float64(20.921428571428578), np.float64(-24.06037735849057)], y: [np.float64(-1.057142857142864), np.float64(4.77735849056603)], z: [np.float64(-1.085714285714289), np.float64(8.03735849056602)]

Conexion: x: [np.float64(20.921428571428578), np.float64(-26.297709923664115)], y: [np.float64(-1.057142857142864), np.float64(2.015267175572518)], z: [np.float64(-1.085714285714289), np.float64(-4.480916030534345)]

Conexion: x: [np.float64(20.921428571428578), np.float64(-18.97637795275591)], y: [np.float64(-1.057142857142864), np.float64(12.84251968059377)], z: [np.float64(-1.085714285714289), np.float64(-3.055118110236222)]

Conexion: x: [np.float64(20.921428571428578), np.float64(-27.807017543859644)], y: [np.float64(-1.057142857142864), np.float64(-10.66666666666671)], z: [np.float64(-1.085714285714289), np.float64(3.94736842105263)]

Conexion: x: [np.float64(20.921428571428578), np.float64(31.118942731277535)], y: [np.float64(-1.057142857142864), np.float64(-10.12334801762114)], z: [np.float64(-1.085714285714289), np.float64(1.101321585903037)]

Conexion: x: [np.float64(20.921428571428578), np.float64(25.544117647058826)], y: [np.float64(-1.057142857142864), np.float64(5.330882352941188)], z: [np.float64(-1.085714285714289), np.float64(2.286764705882348)]

Conexion: x: [np.float64(20.921428571428578), np.float64(-3.75)], y: [np.float64(-1.057142857142864), np.float64(-2.146551724137936)], z: [np.float64(-1.085714285714289), np.float64(62.758620689655174)]

Conexion: x: [np.float64(20.921428571428578), np.float64(-14.693140794223822)], y: [np.float64(-1.057142857142864), np.float64(-15.653429602880802)], z: [np.float64(-1.085714285714289), np.float64(7.812274368231044)]

Conexion: x: [np.float64(20.921428571428578), np.float64(8.902255639097746)], y: [np.float64(-1.057142857142864), np.float64(-11.94736842105263)], z: [np.float64(-1.085714285714289), np.float64(3.744369092255636)]

Conexion: x: [np.float64(-20.04132231404958), np.float64(-19.6015325670498)], y: [np.float64(-2.04132231404958), np.float64(-6.804597701149419)], z: [np.float64(-26.33057851239669), np.float64(-29.923371647509576)]

Conexion: x: [np.float64(-20.04132231404958), np.float64(20.10434782608695)], y: [np.float64(-2.04132231404958), np.float64(-2.486956521739131)], z: [np.float64(-26.33057851239669), np.float64(-23.93043782608693)]

Conexion: x: [np.float64(-20.04132231404958), np.float64(-25.04905660377358)], y: [np.float64(-2.04132231404958), np.float64(11.418867924528314)], z: [np.float64(-26.33057851239669), np.float64(-29.923371647509576)]

Conexion: x: [np.float64(-19.6015325670498), np.float64(20.10434782608695)], y: [np.float64(-6.804597701149419), np.float64(-2.486956521739131)], z: [np.float64(-29.923371647509576), np.float64(-23.93043782608693)]

Conexion: x: [np.float64(-20.2542372881356), np.float64(-26.2510460251046)], y: [np.float64(-32.82203389830508), np.float64(-28.853556485355654)], z: [np.float64(-12.618644067796609), np.float64(-17.89121338912134)]

Conexion: x: [np.float64(-20.2542372881356), np.float64(20.68807339449542)], y: [np.float64(-32.82203389830508), np.float64(-28.073394495412842)], z: [np.float64(-12.618644067796609), np.float64(-15.220183486238533)]

Conexion: x: [np.float64(20.68807339449542), np.float64(29.706122448979592)], y: [np.float64(-28.073394495412842), np.float64(-19.004081632653055)], z: [np.float64(-15.220183486238533), np.float64(-25.461224489795917)]

Conexion: x: [np.float64(25.40517241379311), np.float64(28.80916030534351)], y: [np.float64(1.103448275862064), np.float64(12.297709923664115)], z: [np.float64(-31.60344827586207), np.float64(-38.93893129770992)]

Conexion: x: [np.float64(-10.836879432624116), np.float64(-7.314079422382676)], y: [np.float64(-19.808510638297875), np.float64(-20.115523465703973)], z: [np.float64(75.64539007092199), np.float64(62.88086642599279)]

Conexion: x: [np.float64(-10.836879432624116), np.float64(-5.5564202334630295)], y: [np.float64(-19.808510638297875), np.float64(-27.53307392996109)], z: [np.float64(75.64539007092199), np.float64(64.77042801556419)]

Conexion: x: [np.float64(-7.314079422382676), np.float64(-5.5564202334630295)], y: [np.float64(-20.115523465703973), np.float64(-27.53307392996109)], z: [np.float64(62.88086642599279), np.float64(64.77042801556419)]

Conexion: x: [np.float64(-7.314079422382676), np.float64(-5.44444444444443)], y: [np.float64(-20.115523465703973), np.float64(-15.230158730158735)], z: [np.float64(62.88086642599279), np.float64(56.0952380952381)]

Conexion: x: [np.float64(-5.5564202334630295), np.float64(-9.227941176470594)], y: [np.float64(-27.53307392996109), np.float64(-31.558823529411768)], z: [np.float64(64.77042801556419), np.float64(76.49264705882354)]

Conexion: x: [np.float64(-5.5564202334630295), np.float64(-6.659003831417621)], y: [np.float64(-27.53307392996109), np.float64(-34.996168582375475)], z: [np.float64(64.77042801556419), np.float64(63.08045977011494)]

Conexion: x: [np.float64(-5.5564202334630295), np.float64(8.327683615819211)], y: [np.float64(-27.53307392996109), np.float64(-33.89830508474576)], z: [np.float64(64.77042801556419), np.float64(58.06214689265536)]

Conexion: x: [np.float64(-9.227941176470594), np.float64(-6.659003831417621)], y: [np.float64(-31.558823529411768), np.float64(-34.996168582375475)], z: [np.float64(76.49264705882354), np.float64(63.08045977011494)]

Conexion: x: [np.float64(-9.227941176470594), np.float64(-21.1245551004235)], y: [np.float64(-31.558823529411768), np.float64(-34.996168582375475)], z: [np.float64(76.49264705882354), np.float64(63.08045977011494)]

3969465648855]], np.float64(-64.05776173285199)], z: [np.float64(46.1145038167939), np.float64(56.77256317689532)]

Conexion: x: [np.float64(-48.954198473282446), np.float64(-30.687074829931973)], y: [np.float64(-3.7.83969465648855), np.float64(-61.74829931972789)], z: [np.float64(46.1145038167939), np.float64(53.25170068027211)]

Conexion: x: [np.float64(-48.954198473282446), np.float64(-44.169278996865216)], y: [np.float64(-3.7.83969465648855), np.float64(-32.60815047021944)], z: [np.float64(46.1145038167939), np.float64(51.661442006269596)]

Conexion: x: [np.float64(-48.954198473282446), np.float64(-48.1930501930502)], y: [np.float64(-37.83969465648855), np.float64(7.0888030888030755)], z: [np.float64(46.1145038167939), np.float64(32.30880308880305)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-41.091445427728615)], y: [np.float64(-55.687315634218294), np.float64(-64.525073746312685)], z: [np.float64(52.607669616519175), np.float64(52.14749262536873)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-44.539923954372625)], y: [np.float64(-55.687315634218294), np.float64(-51.28517110266159)], z: [np.float64(52.607669616519175), np.float64(46.70722433460077)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-30.609970674486803)], y: [np.float64(-55.687315634218294), np.float64(-64.96774193548387)], z: [np.float64(52.607669616519175), np.float64(46.70722433460077)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(49.51931330472103)], y: [np.float64(-55.687315634218294), np.float64(-41.01287553648069)], z: [np.float64(52.607669616519175), np.float64(47.45922746781116)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(39.96969696969697)], y: [np.float64(-55.687315634218294), np.float64(-53.290909090909096)], z: [np.float64(52.607669616519175), np.float64(51.818181818181)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-30.687074829931973)], y: [np.float64(-55.687315634218294), np.float64(-61.74829931972789)], z: [np.float64(52.607669616519175), np.float64(53.25170068027211)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-48.1930501930502)], y: [np.float64(-55.687315634218294), np.float64(7.0888030888030755)], z: [np.float64(52.607669616519175), np.float64(32.30880308880305)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-41.230158730158735)], y: [np.float64(-55.687315634218294), np.float64(0.1428571428571388)], z: [np.float64(52.607669616519175), np.float64(48.58730158730158)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(-4.55230125523012)], y: [np.float64(-55.687315634218294), np.float64(17.054393305439334)], z: [np.float64(52.607669616519175), np.float64(47.84937238493724)]

Conexion: x: [np.float64(-37.10914454277287), np.float64(7.942446043165461)], y: [np.float64(-55.687315634218294), np.float64(14.050359712230204)], z: [np.float64(52.607669616519175), np.float64(49.99280575539568)]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-49.5655172413793)], y: [np.float64(-27.647435897435898), np.float64(-40.59999999999994)], z: [np.float64(52.147962536873), np.float64(33.645161290323)]

5.62758620689655]]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-44.169278996865216)], y: [np.float64(-27.647435897435898), np.float64(-32.60815047021944)], z: [np.float64(41.967948717948715), np.float64(51.661442006269596)]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-49.91851851851851)], y: [np.float64(-27.647435897435898), np.float64(-18.992592592592587)], z: [np.float64(41.967948717948715), np.float64(44.4296296296963)]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-36.863247863247864)], y: [np.float64(-27.647435897435898), np.float64(-13.452991452991455)], z: [np.float64(41.967948717948715), np.float64(55.4957264957265)]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-58.40466926070039)], y: [np.float64(-27.647435897435898), np.float64(-26.21016731517516)], z: [np.float64(41.967948717948715), np.float64(22.264591439688715)]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-55.671875)], y: [np.float64(-27.647435897435898), np.float64(-25.625)], z: [np.float64(41.967948717948715), np.float64(34.265625)]

Conexion: x: [np.float64(-50.77564102564102), np.float64(-56.669387755102036)], y: [np.float64(-27.647435897435898), np.float64(-34.02448979591837)], z: [np.float64(41.967948717948715), np.float64(32.734693877551024)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-44.539923954372625)], y: [np.float64(-44.525073746312685), np.float64(-51.28517110266159)], z: [np.float64(52.14749262536873), np.float64(46.70722433460077)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(49.51931330472103)], y: [np.float64(-44.525073746312685), np.float64(-41.01287553648069)], z: [np.float64(52.14749262536873), np.float64(47.45922746781116)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(45.80434782608695)], y: [np.float64(-44.525073746312685), np.float64(-39.413043478260875)], z: [np.float64(52.14749262536873), np.float64(52.89130434782609)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(39.96969696969697)], y: [np.float64(-44.525073746312685), np.float64(-53.290909090909096)], z: [np.float64(52.14749262536873), np.float64(51.818181818181)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-24.7870036101083)], y: [np.float64(-44.525073746312685), np.float64(-64.05776173285199)], z: [np.float64(52.14749262536873), np.float64(56.77256317689532)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-16.5223676975945)], y: [np.float64(-44.525073746312685), np.float64(-72.24742268041237)], z: [np.float64(52.14749262536873), np.float64(51.02405498281787)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-21.245283018867923)], y: [np.float64(-44.525073746312685), np.float64(-72.15849056603773)], z: [np.float64(52.14749262536873), np.float64(45.41132075471698)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-30.987447698744774)], y: [np.float64(-44.525073746312685), np.float64(-47.12133891213389)], z: [np.float64(52.14749262536873), np.float64(63.748953974895386)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-30.687074829931973)], y: [np.float64(-44.525073746312685), np.float64(-61.74829931972789)], z: [np.float64(52.14749262536873), np.float64(52.14749262536873)]

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4.525073746312685)], np.float64(-61.74829931972789)], z: [np.float64(52.14749262536873), np.float64(53.25170068027211)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-44.169278996865216)], y: [np.float64(-44.525073746312685), np.float64(-32.60815047021944)], z: [np.float64(52.14749262536873), np.float64(51.661442006269596)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-36.35830618892507)], y: [np.float64(-44.525073746312685), np.float64(-38.1172638436482)], z: [np.float64(52.14749262536873), np.float64(58.88599348534203)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-48.1930501930502)], y: [np.float64(-44.525073746312685), np.float64(7.0888030888030755)], z: [np.float64(52.14749262536873), np.float64(32.308880308880305)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-34.39269406392694)], y: [np.float64(-44.525073746312685), np.float64(-3.050228310502277)], z: [np.float64(52.14749262536873), np.float64(53.85388127853881)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(50.06896551724138)], y: [np.float64(-44.525073746312685), np.float64(7.400000000000006)], z: [np.float64(52.14749262536873), np.float64(40.28965517241379)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-2.606837606837601)], y: [np.float64(-44.525073746312685), np.float64(12.0)], z: [np.float64(52.14749262536873), np.float64(55.27350427350427)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(-4.55230125523012)], y: [np.float64(-44.525073746312685), np.float64(17.054393305439334)], z: [np.float64(52.14749262536873), np.float64(47.84937238493724)]

Conexion: x: [np.float64(-41.091445427728615), np.float64(7.942446043165461)], y: [np.float64(-44.525073746312685), np.float64(14.050359712230204)], z: [np.float64(52.14749262536873), np.float64(49.99280575539568)]

Conexion: x: [np.float64(-44.539923954372625), np.float64(-45.72575250836121)], y: [np.float64(-51.28517110266159), np.float64(-50.2675585284281)], z: [np.float64(46.70722433460077), np.float64(39.53177257525084)]

Conexion: x: [np.float64(-44.539923954372625), np.float64(-30.609970674486803)], y: [np.float64(-51.28517110266159), np.float64(-64.96774193548387)], z: [np.float64(52.14749262536873), np.float64(46.70722433460077)]

Conexion: x: [np.float64(-44.539923954372625), np.float64(49.51931330472103)], y: [np.float64(-51.28517110266159), np.float64(-41.01287553648069)], z: [np.float64(46.70722433460077), np.float64(51.818181818181)]

Conexion: x: [np.float64(-44.539923954372625), np.float64(47.49612403100775)], y: [np.float64(-51.28517110266159), np.float64(-51.488620155038764)], z: [np.float64(46.70722433460077), np.float64(46.52713178294573)]

Conexion: x: [np.float64(-44.539923954372625), np.float64(50.95967741935484)], y: [np.float64(-51.28517110266159), np.float64(-51.2258064516129)], z: [np.float64(46.70722433460077), np.float64(40.55

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Conexion: x: [np.float64(-44.539923954372625), np.float64(-4.55230125523012)], y: [np.float64(-51.28517110266159), np.float64(17.054393305439334)], z: [np.float64(46.70722433460077), np.float64(47.84937238493724)]

Conexion: x: [np.float64(-45.72575250836121), np.float64(-49.5655172413793)], y: [np.float64(-50.2675585284281), np.float64(-40.59999999999994)], z: [np.float64(39.53177257525084), np.float64(39.62758620689655)]

Conexion: x: [np.float64(-45.72575250836121), np.float64(50.95967741935484)], y: [np.float64(-50.2675585284281), np.float64(-51.2258064516129)], z: [np.float64(39.53177257525084), np.float64(40.55645161290323)]

Conexion: x: [np.float64(-49.5655172413793), np.float64(49.51931330472103)], y: [np.float64(-40.59999999999994), np.float64(-41.01287553648069)], z: [np.float64(39.62758620689655), np.float64(47.45922746781116)]

Conexion: x: [np.float64(-49.5655172413793), np.float64(-54.13654618473896)], y: [np.float64(-40.59999999999994), np.float64(-46.18473895582329)], z: [np.float64(39.62758620689655), np.float64(30.95582329172685)]

Conexion: x: [np.float64(-49.5655172413793), np.float64(-56.669387755102036)], y: [np.float64(-40.59999999999994), np.float64(-34.02448979591837)], z: [np.float64(39.62758620689655), np.float64(32.734693877551024)]

Conexion: x: [np.float64(-49.5655172413793), np.float64(51.72363636363636)], y: [np.float64(-40.59999999999994), np.float64(-32.54545454545455)], z: [np.float64(39.62758620689655), np.float64(43.2727272727266)]

Conexion: x: [np.float64(-30.609970674486803), np.float64(-21.245283018867923)], y: [np.float64(-64.96774193548387), np.float64(-72.15849056603773)], z: [np.float64(43.313782991202345), np.float64(44.51132075471698)]

Conexion: x: [np.float64(-30.609970674486803), np.float64(30.687074829931973)], y: [np.float64(-64.96774193548387), np.float64(-61.74829931972789)], z: [np.float64(43.313782991202345), np.float64(53.25170068027211)]

Conexion: x: [np.float64(-30.609970674486803), np.float64(-48.1930501930502)], y: [np.float64(-64.96774193548387), np.float64(7.0888030888030755)], z: [np.float64(43.313782991202345), np.float64(32.308880308880305)]

Conexion: x: [np.float64(-30.609970674486803), np.float64(-2.606837606837601)], y: [np.float64(-64.96774193548387), np.float64(12.0)], z: [np.float64(43.313782991202345), np.float64(55.27350427350427)]

Conexion: x: [np.float64(-30.609970674486803), np.float64(-4.55230125523012)], y: [np.float64(-64.96774193548387), np.float64(17.054393305439334)], z: [np.float64(43.313782991202345), np.float64(47.84937238493724)]

Conexion: x: [np.float64(-8.484429065743939), np.float64(-2.046948356807585)], y: [np.float64(-84.5915570934256), np.float64(-86.7793427230047)], z: [np.float64(4.802768166089962), np.float64(-0.10328638497652776)]

Conexion: x: [np.float64(-8.484429065743939), np.float64(-7.822222222222223)], y: [np.float64(-84.5915570934256), np.float64(-100.41111111111111)], z: [np.float64(4.802768166089962), np.float64(-1.377777777777778)]

Conexion: x: [np.float64(-8.484429065743939), np.float64(-11.8429003021148)], y: [np.float64(-84.59515570934256), np.float64(-77.31117824773415)], z: [np.float64(4.802768166089962), np.float64(11.29903655589118)]

Conexion: x: [np.float64(-4.228915662650607), np.float64(-2.046948356807505)], y: [np.float64(-88.43373493975903), np.float64(-86.7793427230047)], z: [np.float64(-8.289156626506028), np.float64(-8.10328638497652776)]

Conexion: x: [np.float64(-4.228915662650607), np.float64(-5.340206185567013)], y: [np.float64(-88.43373493975903), np.float64(-97.74226804123711)], z: [np.float64(-8.289156626506028), np.float64(-7.948453608247419)]

Conexion: x: [np.float64(-2.046948356807505), np.float64(1.05263157894737)], y: [np.float64(-86.7793427230047), np.float64(-86.70676691729324)], z: [np.float64(-0.10328638497652776), np.float64(9.48721804511272)]

Conexion: x: [np.float64(-2.046948356807505), np.float64(16.34042553191489)], y: [np.float64(-86.7793427230047), np.float64(-79.55623100303951)], z: [np.float64(-0.10328638497652776), np.float64(3.920972644376903)]

Conexion: x: [np.float64(-7.273846153846151), np.float64(-11.049180327868854)], y: [np.float64(-70.91076923076923), np.float64(-59.531615925058546)], z: [np.float64(14.098461538461535), np.float64(8.758782201405154)]

Conexion: x: [np.float64(-7.273846153846151), np.float64(-11.8429003021148)], y: [np.float64(-70.91076923076923), np.float64(-77.31117824773415)], z: [np.float64(14.098461538461535), np.float64(11.29903655589118)]

Conexion: x: [np.float64(-7.273846153846151), np.float64(13.447204968944106)], y: [np.float64(-70.91076923076923), np.float64(-72.24844720496895)], z: [np.float64(14.098461538461535), np.float64(11.43478260869556)]

Conexion: x: [np.float64(-11.049180327868854), np.float64(-10.733668341708537)], y: [np.float64(-59.531615925058546), np.float64(-51.1608040201005)], z: [np.float64(8.758782201405154), np.float64(1.32663316582915)]

Conexion: x: [np.float64(-11.049180327868854), np.float64(15.899705014749259)], y: [np.float64(-59.531615925058546), np.float64(-56.90265486725664)], z: [np.float64(8.758782201405154), np.float64(1.722713864306783)]

Conexion: x: [np.float64(-11.049180327868854), np.float64(19.481707317073173)], y: [np.float64(-59.531615925058546), np.float64(-63.11585365853658)], z: [np.float64(8.758782201405154), np.float64(9.810975609756099)]

Conexion: x: [np.float64(-5.340206185567013), np.float64(-7.822222222222223)], y: [np.float64(-97.74226804123711), np.float64(-100.41111111111111)], z: [np.float64(-7.948453608247419), np.float64(-1.377777777777778)]

Conexion: x: [np.float64(-7.822222222222223), np.float64(17.75)], y: [np.float64(-100.41111111111111), np.float64(-96.546875)], z: [np.float64(-1.377777777777778), np.float64(-0.75)]

Conexion: x: [np.float64(1.05263157894737), np.float64(-11.8429003021148)], y: [np.float64(-86.70676691729324), np.float64(-77.31117824773415)], z: [np.float64(9.488721804511272), np.float64(11.29903655589118)]

Conexion: x: [np.float64(1.05263157894737), np.float64(11.1958041958042)], y: [np.float64(-86.70676691729324), np.float64(-85.1048951048951)], z: [np.float64(9.488721804511272), np.float64(10.27272727272727)]

Conexion: x: [np.float64(39.96969696969697), np.float64(-30.687074829931973)], y: [np.float64(-53.29090909090909), np.float64(-61.74829931972789)], z: [np.float64(51.81818181818181), np.float64(53.25170068027211)]

Conexion: x: [np.float64(39.96969696969697), np.float64(42.11965811965812)], y: [np.float64(-53.29090909090909), np.float64(-46.63247863247864)], z: [np.float64(51.81818181818181), np.float64(59.58119658119659)]

Conexion: x: [np.float64(39.96969696969697), np.float64(34.20634920634921)], y: [np.float64(-53.29090909090909), np.float64(-54.38888888888888)], z: [np.float64(51.81818181818181), np.float64(61.92063492063494)]

Conexion: x: [np.float64(39.96969696969697), np.float64(-48.1930501930502)], y: [np.float64(-53.29090909090909), np.float64(7.0888030888030755)], z: [np.float64(51.81818181818181), np.float64(32.308880308880305)]

Conexion: x: [np.float64(39.96969696969697), np.float64(50.06896551724138)], y: [np.float64(-53.29090909090909), np.float64(7.4000000000000006)], z: [np.float64(51.81818181818181), np.float64(40.28965517241379)]

Conexion: x: [np.float64(39.96969696969697), np.float64(7.942446043165461)], y: [np.float64(-53.29090909090909), np.float64(14.050359712230204)], z: [np.float64(51.81818181818181), np.float64(49.9280575539568)]

Conexion: x: [np.float64(47.49612403100775), np.float64(50.95967741935484)], y: [np.float64(-51.480620155038764), np.float64(-51.2258064516129)], z: [np.float64(46.52713178294573), np.float64(40.55645161290323)]

Conexion: x: [np.float64(50.95967741935484), np.float64(56.041666666666664)], y: [np.float64(-51.2258064516129), np.float64(-40.1500000000000006)], z: [np.float64(40.55645161290323), np.float64(40.55645161290323)]

Conexion: x: [np.float64(-27.603603603603602), np.float64(-30.987447698744774)], y: [np.float64(-54.57657657657657), np.float64(-47.12133891213389)], z: [np.float64(65.19819819819818), np.float64(63.748953974895386)]

Conexion: x: [np.float64(-27.603603603603602), np.float64(23.81967213114754)], y: [np.float64(-54.57657657657657), np.float64(-58.040983606557376)], z: [np.float64(65.19819819819818), np.float64(67.172131147541)]

Conexion: x: [np.float64(-27.603603603603602), np.float64(34.20634920634921)], y: [np.float64(-54.57657657657657), np.float64(-54.38888888888888)], z: [np.float64(65.19819819819818), np.float64(61.992063492063494)]

Conexion: x: [np.float64(-27.603603603603602), np.float64(30.37007874015748)], y: [np.float64(-54.57657657657657), np.float64(-62.84251968503936)], z: [np.float64(65.19819819819818), np.float64(59.84251968503938)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(-19.242424242425)], y: [np.float64(-64.05776173285199), np.float64(-59.4469696969697)], z: [np.float64(56.77256317689532), np.float64(61.76515151515151)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(-16.52233676975945)], y: [np.float64(-64.05776173285199), np.float64(-72.24742268041237)], z: [np.float64(56.77256317689532), np.float64(51.02405498281787)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(-21.245283018867923)], y: [np.float64(-64.05776173285199), np.float64(-72.24742268041237)], z: [np.float64(56.77256317689532), np.float64(51.02405498281787)]

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Conexion: x: [np.float64(49.51931330472103), np.float64(45.80434782608695)], y: [np.float64(-41.01287553648069), np.float64(-39.413043478260875)], z: [np.float64(47.45922746781116), np.float64(52.89130434782609)]

Conexion: x: [np.float64(49.51931330472103), np.float64(39.96969696969697)], y: [np.float64(-41.01287553648069), np.float64(-53.290909090909096)], z: [np.float64(47.45922746781116), np.float64(51.818181818181)]

Conexion: x: [np.float64(49.51931330472103), np.float64(47.49612403100775)], y: [np.float64(-41.01287553648069), np.float64(-51.480620155038764)], z: [np.float64(47.45922746781116), np.float64(46.52713178294573)]

Conexion: x: [np.float64(49.51931330472103), np.float64(50.95967741935484)], y: [np.float64(-41.01287553648069), np.float64(-51.2258064516129)], z: [np.float64(47.45922746781116), np.float64(40.55645161290323)]

Conexion: x: [np.float64(49.51931330472103), np.float64(56.041666666666664)], y: [np.float64(-41.01287553648069), np.float64(-40.1500000000000006)], z: [np.float64(47.45922746781116), np.float64(40.55645161290323)]

Conexion: x: [np.float64(49.51931330472103), np.float64(51.723636363636366)], y: [np.float64(-41.01287553648069), np.float64(-32.54545454545455)], z: [np.float64(47.45922746781116), np.float64(43.2727272727266)]

Conexion: x: [np.float64(45.80434782608695), np.float64(39.96969696969697)], y: [np.float64(-39.413043478260875), np.float64(-53.290909090909096)], z: [np.float64(52.89130434782609), np.float64(51.818181818181)]

Conexion: x: [np.float64(45.80434782608695), np.float64(-24.7870036101083)], y: [np.float64(-39.413043478260875), np.float64(-64.05776173285199)], z: [np.float64(52.89130434782609), np.float64(56.77256317689532)]

Conexion: x: [np.float64(45.80434782608695), np.float64(42.11965811965812)], y: [np.float64(-39.413043478260875), np.float64(-46.63247863247864)], z: [np.float64(52.89130434782609), np.float64(59.58119658119659)]

Conexion: x: [np.float64(45.80434782608695), np.float64(15.43529411764706)], y: [np.float64(-39.413043478260875), np.float64(-59.521568627450975)], z: [np.float64(52.89130434782609), np.float64(68.03137254901961)]

Conexion: x: [np.float64(45.80434782608695), np.float64(18.66129032258064)], y: [np.float64(-39.413043478260875), np.float64(-69.95967741935485)], z: [np.float64(52.89130434782609), np.float64(58.04032258064515)]

Conexion: x: [np.float64(45.80434782608695), np.float64(45.867867867867865)], y: [np.float64(-39.413043478260875), np.float64(-27.207207207207205)], z: [np.float64(52.89130434782609), np.float64(53.567567567567565)]

Conexion: x: [np.float64(39.96969696969697), np.float64(47.49612403100775)], y: [np.float64(-53.290909090909096), np.float64(-51.480620155038764)], z: [np.float64(51.81818181818181), np.float64(46.52713178294573)]

Conexion: x: [np.float64(39.96969696969697), np.float64(-24.7870036101083)], y: [np.float64(-53.290909090909096), np.float64(-64.05776173285199)], z: [np.float64(51.81818181818181), np.float64(56.77256317689532)]

5776173285199), np.float64(-72.15849056603773)], z: [np.float64(56.77256317689532), np.float64(45.41132075471698)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(-30.687074829931973)], y: [np.float64(-64.05776173285199), np.float64(-61.74829931972789)], z: [np.float64(56.77256317689532), np.float64(53.25170068027211)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(28.980237154150196)], y: [np.float64(-64.05776173285199), np.float64(-69.12252964426878)], z: [np.float64(56.77256317689532), np.float64(52.2687740355731)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(18.66129032258064)], y: [np.float64(-64.05776173285199), np.float64(-69.95967741935485)], z: [np.float64(56.77256317689532), np.float64(58.04032258064515)]

Conexion: x: [np.float64(-24.7870036101083), np.float64(30.37007874015748)], y: [np.float64(-64.05776173285199), np.float64(-62.84251968503936)], z: [np.float64(56.77256317689532), np.float64(59.84251968503938)]

Conexion: x: [np.float64(-19.242424242425), np.float64(-18.910798122065728)], y: [np.float64(-59.4469696969697), np.float64(-49.070422535211264)], z: [np.float64(61.76515151515151), np.float64(69.39906103286384)]

Conexion: x: [np.float64(-19.242424242425), np.float64(23.81967213114754)], y: [np.float64(-59.4469696969697), np.float64(-58.040983606557376)], z: [np.float64(61.76515151515151), np.float64(67.172131147541)]

Conexion: x: [np.float64(-19.242424242425), np.float64(15.43529411764706)], y: [np.float64(-59.4469696969697), np.float64(-59.521568627450975)], z: [np.float64(61.76515151515151), np.float64(68.03137254901961)]

Conexion: x: [np.float64(-19.242424242425), np.float64(18.66129032258064)], y: [np.float64(-59.4469696969697), np.float64(-69.95967741935485)], z: [np.float64(61.76515151515151), np.float64(58.04032258064515)]

Conexion: x: [np.float64(-19.242424242425), np.float64(30.37007874015748)], y: [np.float64(-59.4469696969697), np.float64(-62.84251968503936)], z: [np.float64(61.76515151515151), np.float64(59.84251968503938)]

Conexion: x: [np.float64(-19.242424242425), np.float64(-10.320610687022906)], y: [np.float64(-59.4469696969697), np.float64(-62.09923664122137)], z: [np.float64(61.76515151515151), np.float64(62.1145038167939)]

Conexion: x: [np.float64(-16.52233676975945), np.float64(-21.245283018867923)], y: [np.float64(-72.24742268041237), np.float64(-72.15849056603773)], z: [np.float64(51.02405498281787), np.float64(45.41132075471698)]

Conexion: x: [np.float64(-16.52233676975945), np.float64(28.980237154150196)], y: [np.float64(-72.24742268041237), np.float64(-69.12252964426878)], z: [np.float64(51.02405498281787), np.float64(52.2687740355731)]

Conexion: x: [np.float64(-16.52233676975945), np.float64(18.546218487394952)], y: [np.float64(-72.24742268041237), np.float64(-73.2521008403614)], z: [np.float64(51.02405498281787), np.float64(50.50420168067227)]

Conexion: x: [np.float64(-16.52233676975945), np.float64(18.66129032258064)], y: [np.float64(-72.24742268041237), np.float64(-69.95967741935485)], z: [np.float64(51.02405498281787), np.float64(58.04032258064515)]

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Conexion: x: [np.float64(-16.52233676975945), np.float64(-10.15789473684211)], y: [np.float64(-72.24742268041237), np.float64(-69.91228070175438)], z: [np.float64(51.02405498281787), np.float64(53.85087719298245)]
Conexion: x: [np.float64(-16.52233676975945), np.float64(10.355769230769226)], y: [np.float64(-72.24742268041237), np.float64(-70.86538461538461)], z: [np.float64(51.02405498281787), np.float64(54.74038461538461)]
Conexion: x: [np.float64(-21.245283018867923), np.float64(-30.687074829931973)], y: [np.float64(-72.15849056603773), np.float64(-61.74829931972789)], z: [np.float64(45.41132075471698), np.float64(53.25170068027211)]
Conexion: x: [np.float64(-21.245283018867923), np.float64(28.980237154150196)], y: [np.float64(-72.15849056603773), np.float64(-69.12252964426878)], z: [np.float64(45.41132075471698), np.float64(52.26877470355731)]
Conexion: x: [np.float64(-21.245283018867923), np.float64(18.546218487394952)], y: [np.float64(-72.15849056603773), np.float64(-73.25210084033614)], z: [np.float64(45.41132075471698), np.float64(50.50420168067227)]
Conexion: x: [np.float64(-21.245283018867923), np.float64(-48.1930501930502)], y: [np.float64(-72.15849056603773), np.float64(7.0888038888030755)], z: [np.float64(45.41132075471698), np.float64(32.30888038880305)]
Conexion: x: [np.float64(-30.987447698744774), np.float64(34.20634920634921)], y: [np.float64(-47.12135891213389), np.float64(-54.38888888888886)], z: [np.float64(63.748953974895386), np.float64(61.992063492063494)]
Conexion: x: [np.float64(-30.987447698744774), np.float64(-36.35830618892507)], y: [np.float64(-47.12135891213389), np.float64(-38.1172638436482)], z: [np.float64(63.748953974895386), np.float64(58.88599348534203)]
Conexion: x: [np.float64(-30.987447698744774), np.float64(-26.596638655462186)], y: [np.float64(-47.12135891213389), np.float64(-40.420168067226896)], z: [np.float64(63.748953974895386), np.float64(64.2436974789916)]
Conexion: x: [np.float64(-18.910798122065728), np.float64(15.43529411764706)], y: [np.float64(-49.07422535211264), np.float64(-59.521568627450975)], z: [np.float64(69.39906103286384), np.float64(68.03137254901961)]
Conexion: x: [np.float64(-18.910798122065728), np.float64(-10.644808743169392)], y: [np.float64(-49.0740422535211264), np.float64(-54.65573770491804)], z: [np.float64(69.39906103286384), np.float64(70.18579234972677)]
Conexion: x: [np.float64(-30.687074829931973), np.float64(28.980237154150196)], y: [np.float64(-61.74829931972789), np.float64(-69.12252964426878)], z: [np.float64(53.25170068027211), np.float64(52.26877470355731)]
Conexion: x: [np.float64(-30.687074829931973), np.float64(30.37007874015748)], y: [np.float64(-61.74829931972789), np.float64(-62.84251968503936)], z: [np.float64(53.25170068027211), np.float64(59.84251968503938)]
Conexion: x: [np.float64(-30.687074829931973), np.float64(-48.1930501930502)], y: [np.float64(-61.74829931972789), np.float64(7.0888038888030755)], z: [np.float64(53.25170068027211), np.float64(32.30888038880305)]

Conexion: x: [np.float64(-30.687074829931973), np.float64(-2.606837606837601)], y: [np.float64(-61.74829931972789), np.float64(12.0)], z: [np.float64(53.25170068027211), np.float64(55.27350427350427)]
Conexion: x: [np.float64(-30.687074829931973), np.float64(-4.55230125523012)], y: [np.float64(-61.74829931972789), np.float64(17.054393305439334)], z: [np.float64(53.25170068027211), np.float64(47.84937238493724)]
Conexion: x: [np.float64(28.980237154150196), np.float64(18.546218487394952)], y: [np.float64(-69.12252964426878), np.float64(-73.25210084033614)], z: [np.float64(52.26877470355731), np.float64(50.50420168067227)]
Conexion: x: [np.float64(28.980237154150196), np.float64(18.66129032258064)], y: [np.float64(-69.12252964426878), np.float64(-69.95967741935485)], z: [np.float64(52.26877470355731), np.float64(58.04032258064515)]
Conexion: x: [np.float64(28.980237154150196), np.float64(30.37007874015748)], y: [np.float64(-69.12252964426878), np.float64(-62.84251968503936)], z: [np.float64(52.26877470355731), np.float64(59.84251968503938)]
Conexion: x: [np.float64(18.546218487394952), np.float64(18.66129032258064)], y: [np.float64(-73.25210084033614), np.float64(-69.95967741935485)], z: [np.float64(50.50420168067227), np.float64(58.04032258064515)]
Conexion: x: [np.float64(18.546218487394952), np.float64(-10.15789473684211)], y: [np.float64(-73.25210084033614), np.float64(-69.91228070175438)], z: [np.float64(50.50420168067227), np.float64(53.85087719298245)]
Conexion: x: [np.float64(18.546218487394952), np.float64(7.707317073170728)], y: [np.float64(-73.25210084033614), np.float64(-71.17073170731707)], z: [np.float64(50.50420168067227), np.float64(47.86178861788618)]
Conexion: x: [np.float64(18.546218487394952), np.float64(10.355769230769226)], y: [np.float64(-73.25210084033614), np.float64(-70.86538461538461)], z: [np.float64(50.50420168067227), np.float64(54.74038461538461)]
Conexion: x: [np.float64(23.81967213114754), np.float64(15.43529411764706)], y: [np.float64(-58.040983606557376), np.float64(-59.521568627450975)], z: [np.float64(67.172131147541), np.float64(68.03137254901961)]
Conexion: x: [np.float64(23.81967213114754), np.float64(20.94262295081967)], y: [np.float64(-58.040983606557376), np.float64(-49.50819672131148)], z: [np.float64(67.172131147541), np.float64(68.7131475409837)]
Conexion: x: [np.float64(23.81967213114754), np.float64(34.20634920634921)], y: [np.float64(-58.040983606557376), np.float64(-54.38888888888886)], z: [np.float64(67.172131147541), np.float64(61.992063492063494)]
Conexion: x: [np.float64(23.81967213114754), np.float64(30.37007874015748)], y: [np.float64(-58.040983606557376), np.float64(-62.84251968503936)], z: [np.float64(67.172131147541), np.float64(59.84251968503938)]
Conexion: x: [np.float64(42.11965811965812), np.float64(15.43529411764706)], y: [np.float64(-46.63247863247864), np.float64(-59.521568627450975)], z: [np.float64(59.58119658119659), np.float64(68.03137254901961)]
Conexion: x: [np.float64(42.11965811965812), np.float64(34.20634920634921)], y: [np.float64(-46.63247863247864), np.float64(-59.521568627450975)], z: [np.float64(59.58119658119659), np.float64(68.03137254901961)]

47863247864), np.float64(-54.38888888888886)], z: [np.float64(59.58119658119659), np.float64(61.992063492063494)]
Conexion: x: [np.float64(15.43529411764706), np.float64(18.66129032258064)], y: [np.float64(-59.521568627450975), np.float64(-69.95967741935485)], z: [np.float64(68.03137254901961), np.float64(58.04032258064515)]
Conexion: x: [np.float64(15.43529411764706), np.float64(-10.320610687022906)], y: [np.float64(-59.521568627450975), np.float64(-62.09923664122137)], z: [np.float64(68.03137254901961), np.float64(62.1145038167939)]
Conexion: x: [np.float64(15.43529411764706), np.float64(7.904761904761898)], y: [np.float64(-59.521568627450975), np.float64(-56.539682539682545)], z: [np.float64(68.03137254901961), np.float64(67.9047619047619)]
Conexion: x: [np.float64(15.43529411764706), np.float64(7.627118644067792)], y: [np.float64(-59.521568627450975), np.float64(-63.11864406779661)], z: [np.float64(68.03137254901961), np.float64(60.05084745762713)]
Conexion: x: [np.float64(18.66129032258064), np.float64(30.37007874015748)], y: [np.float64(-69.95967741935485), np.float64(-62.84251968503936)], z: [np.float64(58.04032258064515), np.float64(59.84251968503938)]
Conexion: x: [np.float64(18.66129032258064), np.float64(-30.41493759336098)], y: [np.float64(-69.95967741935485), np.float64(-9.684647302904565)], z: [np.float64(58.04032258064515), np.float64(60.63070539419087)]
Conexion: x: [np.float64(18.66129032258064), np.float64(-10.15789473684211)], y: [np.float64(-69.95967741935485), np.float64(-69.91228070175438)], z: [np.float64(58.04032258064515), np.float64(53.85087719298245)]
Conexion: x: [np.float64(18.66129032258064), np.float64(-10.320610687022906)], y: [np.float64(-69.95967741935485), np.float64(-62.09923664122137)], z: [np.float64(58.04032258064515), np.float64(62.1145038167939)]
Conexion: x: [np.float64(18.66129032258064), np.float64(10.355769230769226)], y: [np.float64(-69.95967741935485), np.float64(-70.86538461538461)], z: [np.float64(58.04032258064515), np.float64(54.74038461538461)]
Conexion: x: [np.float64(20.94262295081967), np.float64(21.405940594059402)], y: [np.float64(-49.50819672131148), np.float64(-41.20792879207921)], z: [np.float64(68.71311475409837), np.float64(72.31683168316832)]
Conexion: x: [np.float64(20.94262295081967), np.float64(14.01129943502825)], y: [np.float64(-49.50819672131148), np.float64(-45.89830508474576)], z: [np.float64(68.71311475409837), np.float64(71.9548022598871)]
Conexion: x: [np.float64(20.94262295081967), np.float64(29.41044776119403)], y: [np.float64(-49.50819672131148), np.float64(-44.23134328358209)], z: [np.float64(68.71311475409837), np.float64(63.58955238805965)]
Conexion: x: [np.float64(20.94262295081967), np.float64(8.51136363636364)], y: [np.float64(-49.50819672131148), np.float64(-48.02272727272726)], z: [np.float64(68.71311475409837), np.float64(64.688504)]
Conexion: x: [np.float64(34.20634920634921), np.float64(30.37007874015748)], y: [np.float64(-54.38888888888886), np.float64(-62.84251968503936)], z: [np.float64(61.992063492063494), np.float64(59.84251968503938)]

Conexion: x: [np.float64(-20.487046632124347), np.float64(-21.12455516014235)], y: [np.float64(-39.18134715025907), np.float64(-33.52313167259787)], z: [np.float64(74.49740932642487), np.float64(68.17081850533808)]
Conexion: x: [np.float64(-20.487046632124347), np.float64(-26.596638655462186)], y: [np.float64(-39.18134715025907), np.float64(-40.420168067226896)], z: [np.float64(74.49740932642487), np.float64(64.2436974789916)]
Conexion: x: [np.float64(-20.487046632124347), np.float64(21.405940594059402)], y: [np.float64(-39.18134715025907), np.float64(-41.20792879207921)], z: [np.float64(74.49740932642487), np.float64(67.9047619047619)]
Conexion: x: [np.float64(-20.487046632124347), np.float64(14.01129943502825)], y: [np.float64(-39.18134715025907), np.float64(-45.89830508474576)], z: [np.float64(74.49740932642487), np.float64(71.9548022598871)]
Conexion: x: [np.float64(-20.487046632124347), np.float64(-10.452991452991455)], y: [np.float64(-39.18134715025907), np.float64(-45.1623931622639316)], z: [np.float64(74.49740932642487), np.float64(73.46153846153845)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(-50.57936507936509)], y: [np.float64(-3.917159763313606), np.float64(-9.682539682539684)], z: [np.float64(18.071005917159766), np.float64(36.89682539682539)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(-57.269035532994934)], y: [np.float64(-3.917159763313606), np.float64(-8.751269035533)], z: [np.float64(18.071005917159766), np.float64(27.817258883248726)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(-56.10434782608695)], y: [np.float64(-3.917159763313606), np.float64(-12.84347826086956)], z: [np.float64(18.071005917159766), np.float64(20.31304378260866)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(63.394230769230774)], y: [np.float64(-3.917159763313606), np.float64(-3.336538461538467)], z: [np.float64(18.071005917159766), np.float64(21.519230769230774)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(53.070422535211264)], y: [np.float64(-3.917159763313606), np.float64(-8.308216901408448)], z: [np.float64(18.071005917159766), np.float64(33.59154929577464)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(-53.05882352941177)], y: [np.float64(-3.917159763313606), np.float64(2.622837370242223)], z: [np.float64(18.071005917159766), np.float64(22.95501730103807)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(51.239852398523986)], y: [np.float64(-3.917159763313606), np.float64(-7.4538745387453815)], z: [np.float64(18.071005917159766), np.float64(41.055350553505534)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(-48.415430267062305)], y: [np.float64(-3.917159763313606), np.float64(-15.821958456973292)], z: [np.float64(18.071005917159766), np.float64(41.492581602373889)]
Conexion: x: [np.float64(-56.42603550295857), np.float64(53.19557195571956)], y: [np.float64(-3.917159763313606), np.float64(-11.291512915129147)], z: [np.float64(18.071005917159766), np.float64(16.678966789667896)]
Conexion: x: [np.float64(-44.169278996865216), np.float64(-41.964601769911496)], y: [np.float64(-3

2.60815047021944)], np.float64(-28.345132743362825)], z: [np.float64(51.661442006269596), np.float64(57.38053097345133)]
Conexion: x: [np.float64(-44.169278996865216), np.float64(-42.53125)], y: [np.float64(-32.60815047021944), np.float64(-21.8046875)], z: [np.float64(51.661442006269596), np.float64(52.328125)]
Conexion: x: [np.float64(-44.169278996865216), np.float64(-36.35830618892507)], y: [np.float64(-32.60815047021944), np.float64(-38.1172638436482)], z: [np.float64(51.661442006269596), np.float64(58.88599348534203)]
Conexion: x: [np.float64(-44.169278996865216), np.float64(-5.765957446808514)], y: [np.float64(-32.60815047021944), np.float64(-1.9716312056737593)], z: [np.float64(51.661442006269596), np.float64(5.0.99290780141844)]
Conexion: x: [np.float64(-41.964601769911496), np.float64(-42.53125)], y: [np.float64(-28.345132743362825), np.float64(-21.8046875)], z: [np.float64(57.38053097345133), np.float64(52.328125)]
Conexion: x: [np.float64(-41.964601769911496), np.float64(-36.35830618892507)], y: [np.float64(-28.345132743362825), np.float64(-38.1172638436482)], z: [np.float64(57.38053097345133), np.float64(58.88599348534203)]
Conexion: x: [np.float64(-41.964601769911496), np.float64(-35.41634241245136)], y: [np.float64(-28.345132743362825), np.float64(-19.64980544747081)], z: [np.float64(57.38053097345133), np.float64(5.9.29961089494162)]
Conexion: x: [np.float64(-41.964601769911496), np.float64(-31.457364341085267)], y: [np.float64(-2.8.345132743362825), np.float64(-25.054263565891475)], z: [np.float64(57.38053097345133), np.float64(63.72868217054264)]
Conexion: x: [np.float64(-41.964601769911496), np.float64(-5.765957446808514)], y: [np.float64(-28.345132743362825), np.float64(-1.9716312056737593)], z: [np.float64(57.38053097345133), np.float64(5.0.99290780141844)]
Conexion: x: [np.float64(-41.964601769911496), np.float64(-5.444444444444443)], y: [np.float64(-28.345132743362825), np.float64(-15.230158730158735)], z: [np.float64(57.38053097345133), np.float64(5.6.0952380952381)]
Conexion: x: [np.float64(-49.91851851851851), np.float64(-45.78438661710038)], y: [np.float64(-18.92592592592587), np.float64(-12.921933085501863)], z: [np.float64(44.42962962962963), np.float64(4.6.594795539033456)]
Conexion: x: [np.float64(-49.91851851851851), np.float64(-42.53125)], y: [np.float64(-18.992592592592587), np.float64(-21.8046875)], z: [np.float64(44.42962962962963), np.float64(52.328125)]
Conexion: x: [np.float64(-49.91851851851851), np.float64(-50.57936507936509)], y: [np.float64(-18.92592592592587), np.float64(-9.682539682539684)], z: [np.float64(44.42962962962963), np.float64(36.89682539682539)]
Conexion: x: [np.float64(-49.91851851851851), np.float64(53.070422535211264)], y: [np.float64(-18.92592592592587), np.float64(-8.302816901408448)], z: [np.float64(44.42962962962963), np.float64(33.59154929577464)]
Conexion: x: [np.float64(-49.91851851851851), np.float64(51.239852398523986)], y: [np.float64(-18.92592592592587), np.float64(-7.4538745387453815)], z: [np.float64(44.42962962962963), np.float64(4.1.055350553505534)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(-42.53125)], y: [np.float64(-12.921933085501863), np.float64(-21.8046875)], z: [np.float64(46.594795539033456), np.float64(52.328125)]

Conexion: x: [np.float64(-45.78438661710038), np.float64(-50.57936507936509)], y: [np.float64(-12.921933085501863), np.float64(-9.682539682539684)], z: [np.float64(46.594795539033456), np.float64(3.6.89682539682539)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(53.070422535211264)], y: [np.float64(-12.921933085501863), np.float64(-8.302816901408448)], z: [np.float64(46.594795539033456), np.float64(3.3.59154929577464)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(-41.59055118110237)], y: [np.float64(-12.921933085501863), np.float64(-7.425196850393704)], z: [np.float64(46.594795539033456), np.float64(4.8.01574803149606)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(51.239852398523986)], y: [np.float64(-12.921933085501863), np.float64(-7.4538745387453815)], z: [np.float64(46.594795539033456), np.float64(4.1.055350553505534)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(45.4527027027027)], y: [np.float64(-12.921933085501863), np.float64(-12.891891891891888)], z: [np.float64(46.594795539033456), np.float64(48.12837837837837)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(-5.765957446808514)], y: [np.float64(-12.921933085501863), np.float64(-1.9716312056737593)], z: [np.float64(46.594795539033456), np.float64(5.0.99290780141844)]
Conexion: x: [np.float64(-45.78438661710038), np.float64(-3.75)], y: [np.float64(-12.921933085501863), np.float64(-2.146551724137936)], z: [np.float64(46.594795539033456), np.float64(62.758620689655174)]
Conexion: x: [np.float64(-42.53125), np.float64(-35.41634241245136)], y: [np.float64(-21.8046875), np.float64(-19.64980544747081)], z: [np.float64(52.328125), np.float64(59.29961089494162)]
Conexion: x: [np.float64(-42.53125), np.float64(-36.863247863247864)], y: [np.float64(-21.8046875), np.float64(-13.452991452991455)], z: [np.float64(52.328125), np.float64(55.4957264957265)]
Conexion: x: [np.float64(-42.53125), np.float64(-5.765957446808514)], y: [np.float64(-21.8046875), np.float64(-1.9716312056737593)], z: [np.float64(52.328125), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(-57.269035532994934)], y: [np.float64(-9.682539682539684), np.float64(-8.751269035533)], z: [np.float64(36.89682539682539), np.float64(27.81725883248726)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(63.394230769230774)], y: [np.float64(-9.682539682539684), np.float64(-3.336538461538467)], z: [np.float64(36.89682539682539), np.float64(21.519230769230774)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(53.070422535211264)], y: [np.float64(-9.682539682539684), np.float64(-8.302816901408448)], z: [np.float64(36.89682539682539), np.float64(33.59154929577464)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(-49.176470588235304)], y: [np.float64(-9.682539682539684), np.float64(1.151260584201673)], z: [np.float64(36.89682539682539), np.float64(40.18487394957984)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(-51.75686274509803)], y: [np.float64(-9.682539682539684), np.float64(-2.1725490196078425)], z: [np.float64(36.89682539682539), np.float64(32.0)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(51.239852398523986)], y: [np.float64(-9.68

2539682539684), np.float64(-7.4538745387453815)], z: [np.float64(36.89682539682539), np.float64(41.055350553505534)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(59.86065573770492)], y: [np.float64(-9.682539682539684), np.float64(-32.786885245901644)], z: [np.float64(36.89682539682539), np.float64(7.729508196721312)]
Conexion: x: [np.float64(-50.57936507936509), np.float64(57.53310104529617)], y: [np.float64(-9.682539682539684), np.float64(-25.54703832752614)], z: [np.float64(36.89682539682539), np.float64(1.177003484320545)]
Conexion: x: [np.float64(-60.677248677248684), np.float64(-56.11952191235059)], y: [np.float64(-17.386243386243393), np.float64(-17.880478087649408)], z: [np.float64(20.539682539682545), np.float64(32.254980079681275)]
Conexion: x: [np.float64(-60.677248677248684), np.float64(-56.10434782608695)], y: [np.float64(-17.386243386243393), np.float64(-12.84347826086956)], z: [np.float64(20.539682539682545), np.float64(2.0.313043478260866)]
Conexion: x: [np.float64(-60.677248677248684), np.float64(57.5108359133127)], y: [np.float64(-17.386243386243393), np.float64(-13.708978328173373)], z: [np.float64(20.539682539682545), np.float64(1.3.87616099071208)]
Conexion: x: [np.float64(-60.677248677248684), np.float64(-58.40466926070039)], y: [np.float64(-17.386243386243393), np.float64(-26.210116731517516)], z: [np.float64(20.539682539682545), np.float64(22.264591439688715)]
Conexion: x: [np.float64(-60.677248677248684), np.float64(61.65853658536585)], y: [np.float64(-17.386243386243393), np.float64(-24.512195121951223)], z: [np.float64(20.539682539682545), np.float64(2.2.910569105691053)]
Conexion: x: [np.float64(-60.677248677248684), np.float64(-52.10788381742739)], y: [np.float64(-17.386243386243393), np.float64(-22.439834062489627)], z: [np.float64(20.539682539682545), np.float64(1.0.049792531120332)]
Conexion: x: [np.float64(-36.35830618892507), np.float64(-29.89387755102041)], y: [np.float64(-38.1172638436482), np.float64(-31.35510204081632)], z: [np.float64(58.88599348534203), np.float64(65.0755102040815)]
Conexion: x: [np.float64(-36.35830618892507), np.float64(-26.596638655462186)], y: [np.float64(-38.1172638436482), np.float64(-40.420168067226896)], z: [np.float64(58.88599348534203), np.float64(64.2436974789916)]
Conexion: x: [np.float64(-36.35830618892507), np.float64(-35.41634241245136)], y: [np.float64(-38.1172638436482), np.float64(-19.64980544747081)], z: [np.float64(58.88599348534203), np.float64(59.29961089494162)]
Conexion: x: [np.float64(-36.35830618892507), np.float64(-36.863247863247864)], y: [np.float64(-38.1172638436482), np.float64(-13.452991452991455)], z: [np.float64(58.88599348534203), np.float64(55.4957264957265)]
Conexion: x: [np.float64(-36.35830618892507), np.float64(-30.414937759336098)], y: [np.float64(-38.1172638436482), np.float64(-9.68467329094565)], z: [np.float64(58.88599348534203), np.float64(60.63070539419087)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(-56.11952191235059)], y: [np.float64(-8.751269035533)], z: [np.float64(-17.880478087649408)], z: [np.float64(27.817258883248726), np.float64(32.2

54980079681275)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(-56.10434782608695)], y: [np.float64(-8.751269035533), np.float64(-12.84347826086956)], z: [np.float64(27.817258883248726), np.float64(20.313043478260866)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(54.95940959409594)], y: [np.float64(-8.751269035533), np.float64(-15.070110701107012)], z: [np.float64(27.817258883248726), np.float64(33.040590405904055)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(63.394230769230774)], y: [np.float64(-8.751269035533), np.float64(-3.336538461538467)], z: [np.float64(27.817258883248726), np.float64(21.519230769230774)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(53.070422535211264)], y: [np.float64(-8.751269035533), np.float64(-8.302816901408448)], z: [np.float64(27.817258883248726), np.float64(33.59154929577464)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(-51.75686274509803)], y: [np.float64(-8.751269035533), np.float64(-2.1725490196078425)], z: [np.float64(27.817258883248726), np.float64(32.0)]
Conexion: x: [np.float64(-57.269035532994934), np.float64(51.239852398523986)], y: [np.float64(-8.751269035533), np.float64(-7.4538745387453815)], z: [np.float64(27.817258883248726), np.float64(41.055350553505534)]
Conexion: x: [np.float64(-56.11952191235059), np.float64(-56.10434782608695)], y: [np.float64(-17.880478087649408), np.float64(-12.84347826086956)], z: [np.float64(32.254980079681275), np.float64(2.0.313043478260866)]
Conexion: x: [np.float64(-56.11952191235059), np.float64(54.95940959409594)], y: [np.float64(-17.880478087649408), np.float64(-15.070110701107012)], z: [np.float64(32.254980079681275), np.float64(3.3.040590405904055)]
Conexion: x: [np.float64(-56.11952191235059), np.float64(-55.671875)], y: [np.float64(-17.880478087649408), np.float64(-25.625)], z: [np.float64(32.254980079681275), np.float64(34.265625)]
Conexion: x: [np.float64(-21.12455516014235), np.float64(-29.89387755102041)], y: [np.float64(-33.52313167259787), np.float64(-31.35510204081632)], z: [np.float64(58.88599348533808), np.float64(65.07755102040815)]
Conexion: x: [np.float64(-21.12455516014235), np.float64(-24.424489795918362)], y: [np.float64(-33.52313167259787), np.float64(-21.61632653061224)], z: [np.float64(68.17081850533808), np.float64(69.68979591836734)]
Conexion: x: [np.float64(-56.10434782608695), np.float64(65.07692307692308)], y: [np.float64(-12.84347826086956), np.float64(-11.40384615384616)], z: [np.float64(20.313043478260866), np.float64(19.90384615384613)]
Conexion: x: [np.float64(-56.10434782608695), np.float64(63.394230769230774)], y: [np.float64(-12.84347826086956), np.float64(-3.336538461538467)], z: [np.float64(20.313043478260866), np.float64(21.519230769230774)]
Conexion: x: [np.float64(-56.10434782608695), np.float64(-48.415430267062305)], y: [np.float64(-12.84347826086956), np.float64(-15.821958456973292)], z: [np.float64(20.313043478260866), np.float64(41.4492581602373889)]
Conexion: x: [np.float64(-56.10434782608695), np.float64(57.5108359133127)], y: [np.float64(-12.843

47826086956], np.float64(−13.708978382173373)], z: [np.float64(20.313043478260866), np.float64(13.87616099071208)]

Conexion: x: [np.float64(−29.89387755102041), np.float64(−26.596638655462186)], y: [np.float64(−31.35510204081632), np.float64(−40.420168067226896)], z: [np.float64(65.07755102040815), np.float64(64.2436974789916)]

Conexion: x: [np.float64(−29.89387755102041), np.float64(−31.457364341085267)], y: [np.float64(−31.35510204081632), np.float64(−25.054263565891475)], z: [np.float64(64.07755102040815), np.float64(63.72868217054264)]

Conexion: x: [np.float64(21.405940594059402), np.float64(14.01129943502825)], y: [np.float64(−41.20792079207921), np.float64(−45.89830508474576)], z: [np.float64(72.31683168316832), np.float64(71.954802259887)]

Conexion: x: [np.float64(21.405940594059402), np.float64(23.69536423841059)], y: [np.float64(−41.20792079207921), np.float64(−34.49006625216556)], z: [np.float64(72.31683168316832), np.float64(62.867549668874176)]

Conexion: x: [np.float64(21.405940594059402), np.float64(13.5625)], y: [np.float64(−41.20792079207921), np.float64(−36.3875)], z: [np.float64(72.31683168316832), np.float64(73.5375)]

Conexion: x: [np.float64(56.39543726235741), np.float64(54.95940959409594)], y: [np.float64(−17.368821292775664), np.float64(−15.070110701107012)], z: [np.float64(38.80608365019012), np.float64(33.040590405904055)]

Conexion: x: [np.float64(56.39543726235741), np.float64(51.763688760806915)], y: [np.float64(−17.368821292775664), np.float64(−21.0835734870317)], z: [np.float64(38.80608365019012), np.float64(48.39193083573487)]

Conexion: x: [np.float64(56.39543726235741), np.float64(51.239852398523986)], y: [np.float64(−17.368821292775664), np.float64(−7.4538745387453815)], z: [np.float64(38.80608365019012), np.float64(41.055350553505534)]

Conexion: x: [np.float64(56.39543726235741), np.float64(61.24229074889868)], y: [np.float64(−17.368821292775664), np.float64(−20.22026431718062)], z: [np.float64(38.80608365019012), np.float64(28.951541850220266)]

Conexion: x: [np.float64(56.39543726235741), np.float64(54.384313725490195)], y: [np.float64(−17.368821292775664), np.float64(−34.49006625216556)], z: [np.float64(38.80608365019012), np.float64(38.831372549019605)]

Conexion: x: [np.float64(65.07692307692308), np.float64(54.95940959409594)], y: [np.float64(−11.40384615384616), np.float64(−15.070110701107012)], z: [np.float64(19.990384615384613), np.float64(33.040590405904055)]

Conexion: x: [np.float64(65.07692307692308), np.float64(63.394230769230774)], y: [np.float64(−11.40384615384616), np.float64(−3.336538461538467)], z: [np.float64(19.990384615384613), np.float64(21.519230769230774)]

Conexion: x: [np.float64(54.95940959409594), np.float64(63.394230769230774)], y: [np.float64(−15.070110701107012), np.float64(−3.336538461538467)], z: [np.float64(33.040590405904055), np.float64(21.519230769230774)]

Conexion: x: [np.float64(54.95940959409594), np.float64(53.070422535211264)], y: [np.float64(−15.070110701107012), np.float64(−8.302816901408448)], z: [np.float64(33.040590405904055), np.float64(33.59154929577464)]

2816901408448), np.float64(−7.4538745387453815)], z: [np.float64(33.59154929577464), np.float64(41.055350553505534)]

Conexion: x: [np.float64(51.763688760806915), np.float64(45.4527027027027)], y: [np.float64(−21.0835734870317), np.float64(−12.891891891891888)], z: [np.float64(48.39193083573487), np.float64(48.12837837837837)]

Conexion: x: [np.float64(36.78260869565217), np.float64(39.62162162162162)], y: [np.float64(−36.35573122529644), np.float64(−32.85810810810811)], z: [np.float64(62.22924901185772), np.float64(55.378378378386)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−42.82527881040892)], y: [np.float64(1.151260504201673), np.float64(6.118959107806688)], z: [np.float64(40.18487394957984), np.float64(42.40148698884758)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−51.75686274509803)], y: [np.float64(1.151260504201673), np.float64(−2.1725490196078425)], z: [np.float64(40.18487394957984), np.float64(32.0)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−48.1930501930502)], y: [np.float64(1.151260504201673), np.float64(7.0888030888030755)], z: [np.float64(40.18487394957984), np.float64(32.30880308880305)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−41.59055118110237)], y: [np.float64(1.151260504201673), np.float64(−7.425196850393704)], z: [np.float64(40.18487394957984), np.float64(48.01574803149606)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−53.05882352941177)], y: [np.float64(1.151260504201673), np.float64(2.622837370242223)], z: [np.float64(40.18487394957984), np.float64(22.95501730103807)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−41.230158730158735)], y: [np.float64(1.151260504201673), np.float64(0.1428571428571388)], z: [np.float64(40.18487394957984), np.float64(48.58730158730158)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(50.06896551724138)], y: [np.float64(1.151260504201673), np.float64(7.400000000000006)], z: [np.float64(40.18487394957984), np.float64(40.28965517241379)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(48.9025974025974)], y: [np.float64(1.151260504201673), np.float64(0.006493506493512768)], z: [np.float64(40.18487394957984), np.float64(44.461038961038966)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(−2.606837606837601)], y: [np.float64(1.151260504201673), np.float64(12.0)], z: [np.float64(40.18487394957984), np.float64(55.27350427350427)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(7.942446043165461)], y: [np.float64(1.151260504201673), np.float64(14.050359712230204)], z: [np.float64(40.18487394957984), np.float64(49.99280575539568)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(7.942446043165461)], y: [np.float64(1.151260504201673), np.float64(14.050359712230204)], z: [np.float64(40.18487394957984), np.float64(49.99280575539568)]

Conexion: x: [np.float64(−49.176470588235304), np.float64(6.018018018018012)], y: [np.float64(1.151260504201673), np.float64(9.360360360360374)], z: [np.float64(40.18487394957984), np.float64(59.29729729729729)]

Conexion: x: [np.float64(−42.82527881040892), np.float64(−48.1930501930502)], y: [np.float64(6.118959107806688), np.float64(7.0888030888030755)], z: [np.float64(42.40148698884758), np.float64(32.308

Conexion: x: [np.float64(54.95940959409594), np.float64(61.24229074889868)], y: [np.float64(−15.070110701107012), np.float64(−20.22026431718062)], z: [np.float64(33.040590405904055), np.float64(28.951541850220266)]

Conexion: x: [np.float64(30.06374501992032), np.float64(23.69536423841059)], y: [np.float64(−33.60956175298804), np.float64(−34.49006622516556)], z: [np.float64(66.55776892430279), np.float64(62.867549668874176)]

Conexion: x: [np.float64(30.06374501992032), np.float64(36.78260869565217)], y: [np.float64(−33.60956175298804), np.float64(−36.35573122529644)], z: [np.float64(66.55776892430279), np.float64(62.22924901185772)]

Conexion: x: [np.float64(30.06374501992032), np.float64(26.384615384615387)], y: [np.float64(−33.60956175298804), np.float64(−25.615384615384613)], z: [np.float64(66.55776892430279), np.float64(67.35042735042734)]

Conexion: x: [np.float64(45.867867867867865), np.float64(51.763688760806915)], y: [np.float64(−27.207207207207205), np.float64(−21.0835734870317)], z: [np.float64(53.567567567567565), np.float64(48.39193083573487)]

Conexion: x: [np.float64(45.867867867867865), np.float64(39.62162162162162)], y: [np.float64(−27.207207207207205), np.float64(−32.85810810810811)], z: [np.float64(53.567567567567565), np.float64(55.3783783783866)]

Conexion: x: [np.float64(45.867867867867865), np.float64(36.7421875)], y: [np.float64(−27.207207207207205), np.float64(−23.2578125)], z: [np.float64(53.567567567567565), np.float64(59.7578125)]

Conexion: x: [np.float64(14.01129943502825), np.float64(13.5625)], y: [np.float64(−45.89830508474576), np.float64(−36.3875)], z: [np.float64(71.954802259887), np.float64(73.5375)]

Conexion: x: [np.float64(14.01129943502825), np.float64(8.51136363636364)], y: [np.float64(−45.89830508474576), np.float64(−48.02727272727266)], z: [np.float64(71.954802259887), np.float64(68.5)]

Conexion: x: [np.float64(23.69536423841059), np.float64(36.78260869565217)], y: [np.float64(−34.49006622516556), np.float64(−36.35573122529644)], z: [np.float64(62.867549668874176), np.float64(64.22924901185772)]

Conexion: x: [np.float64(29.41044776119403), np.float64(36.78260869565217)], y: [np.float64(−44.23134328358209), np.float64(−36.35573122529644)], z: [np.float64(63.589552238805965), np.float64(62.22924901185772)]

Conexion: x: [np.float64(63.394230769230774), np.float64(53.070422535211264)], y: [np.float64(−3.336538461538467), np.float64(−8.302816901408448)], z: [np.float64(21.519230769230774), np.float64(33.59154929577464)]

Conexion: x: [np.float64(63.394230769230774), np.float64(59.523809523809526)], y: [np.float64(−3.336538461538467), np.float64(4.4365079365079225)], z: [np.float64(21.519230769230774), np.float64(22.007936507936506)]

Conexion: x: [np.float64(53.070422535211264), np.float64(−51.75686274509803)], y: [np.float64(−8.302816901408448), np.float64(−2.1725490196078425)], z: [np.float64(33.59154929577464), np.float64(32.0)]

Conexion: x: [np.float64(53.070422535211264), np.float64(59.523809523809526)], y: [np.float64(−8.302816901408448), np.float64(4.4365079365079225)], z: [np.float64(33.59154929577464), np.float64(22.007936507936506)]

Conexion: x: [np.float64(53.070422535211264), np.float64(51.239852398523986)], y: [np.float64(−8.30

880308880305)]

Conexion: x: [np.float64(−42.82527881040892), np.float64(−41.230158730158735)], y: [np.float64(6.118959107806688), np.float64(0.1428571428571388)], z: [np.float64(42.40148698884758), np.float64(48.58730158730158)]

Conexion: x: [np.float64(−42.82527881040892), np.float64(−2.606837606837601)], y: [np.float64(6.118959107806688), np.float64(12.0)], z: [np.float64(42.40148698884758), np.float64(55.27350427350427)]

Conexion: x: [np.float64(−42.82527881040892), np.float64(−4.55230125523012)], y: [np.float64(6.118959107806688), np.float64(17.0543933058439334)], z: [np.float64(42.40148698884758), np.float64(47.8437238493724)]

Conexion: x: [np.float64(−51.75686274509803), np.float64(−48.1930501930502)], y: [np.float64(−2.1725490196078425), np.float64(7.0888030888030755)], z: [np.float64(32.0), np.float64(32.308880308880305)]

Conexion: x: [np.float64(−51.75686274509803), np.float64(−53.05882352941177)], y: [np.float64(−2.1725490196078425), np.float64(2.622837370242223)], z: [np.float64(32.0), np.float64(22.95501730103807)]

Conexion: x: [np.float64(−48.1930501930502), np.float64(−53.05882352941177)], y: [np.float64(7.0888030888030755), np.float64(2.622837370242223)], z: [np.float64(32.308880308880305), np.float64(22.95501730103807)]

Conexion: x: [np.float64(−48.1930501930502), np.float64(50.06896551724138)], y: [np.float64(7.0888030888030755), np.float64(7.400000000000006)], z: [np.float64(32.308880308880305), np.float64(40.28965517241379)]

Conexion: x: [np.float64(−48.1930501930502), np.float64(52.66013071895425)], y: [np.float64(7.0888030888030755), np.float64(4.405228758169926)], z: [np.float64(32.308880308880305), np.float64(31.60130718954248)]

Conexion: x: [np.float64(−48.1930501930502), np.float64(−2.606837606837601)], y: [np.float64(7.0888030888030755), np.float64(12.0)], z: [np.float64(32.308880308880305), np.float64(55.27350427350427)]

Conexion: x: [np.float64(−48.1930501930502), np.float64(−4.55230125523012)], y: [np.float64(7.0888030888030755), np.float64(17.054393305439334)], z: [np.float64(32.308880308880305), np.float64(47.84937238493724)]

Conexion: x: [np.float64(−48.1930501930502), np.float64(7.942446043165461)], y: [np.float64(7.0888030888030755), np.float64(14.050359712230204)], z: [np.float64(32.308880308880305), np.float64(49.99280575539568)]

Conexion: x: [np.float64(−34.39269406392694), np.float64(−41.59055118110237)], y: [np.float64(−3.050228310502277), np.float64(−7.425196850393704)], z: [np.float64(53.85388127853881), np.float64(48.01574803149606)]

Conexion: x: [np.float64(−34.39269406392694), np.float64(−41.230158730158735)], y: [np.float64(−3.050228310502277), np.float64(0.1428571428571388)], z: [np.float64(53.85388127853881), np.float64(48.58730158730158)]

Conexion: x: [np.float64(−34.39269406392694), np.float64(−30.414937759336098)], y: [np.float64(−3.050228310502277), np.float64(−9.684647302904565)], z: [np.float64(53.85388127853881), np.float64(60.63070539419087)]

Conexion: x: [np.float64(−21.0390625), np.float64(−24.424489795918362)], y: [np.float64(−14.4375),

np.float64(-21.61632653061224)], np.float64(71.53125)], np.float64(69.68979591836734)])
Conexion: x: [np.float64(-41.5905511810237), np.float64(-36.863247863247864)], y: [np.float64(-7.425196850393704), np.float64(-13.452991452991455)], z: [np.float64(48.01574803149606), np.float64(5.4957264957265)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(-41.230158730158735)], y: [np.float64(-7.425196850393704), np.float64(0.1428571428571388)], z: [np.float64(48.01574803149606), np.float64(48.58730158730158)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(48.9025974025974)], y: [np.float64(-7.425196850393704), np.float64(0.006493506493512768)], z: [np.float64(48.01574803149606), np.float64(44.461038961038966)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(-5.765975446808514)], y: [np.float64(-7.425196850393704), np.float64(-1.9716312056737593)], z: [np.float64(48.01574803149606), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(-2.606837606837601)], y: [np.float64(-7.425196850393704), np.float64(12.0)], z: [np.float64(48.01574803149606), np.float64(55.27350427350427)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(-3.75)], y: [np.float64(-7.425196850393704), np.float64(-2.146551724137936)], z: [np.float64(48.01574803149606), np.float64(62.758620689655174)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(7.942446043165461)], y: [np.float64(-7.425196850393704), np.float64(14.050359712230204)], z: [np.float64(48.01574803149606), np.float64(49.99290780141844)]
Conexion: x: [np.float64(-41.5905511810237), np.float64(6.018018018018012)], y: [np.float64(-7.425196850393704), np.float64(9.360360360360374)], z: [np.float64(48.01574803149606), np.float64(59.29729729729)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-36.863247863247864)], y: [np.float64(-19.64980544747081), np.float64(-13.452991452991455)], z: [np.float64(59.29961089494162), np.float64(5.4957264957265)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-31.45736431085267)], y: [np.float64(-19.64980544747081), np.float64(-25.054263565891475)], z: [np.float64(59.29961089494162), np.float64(6.372868217054264)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-30.414937759336098)], y: [np.float64(-19.64980544747081), np.float64(-9.684647302904565)], z: [np.float64(59.29961089494162), np.float64(60.63070539419087)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-5.765975446808514)], y: [np.float64(-19.64980544747081), np.float64(-1.9716312056737593)], z: [np.float64(59.29961089494162), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-53.05882352941177), np.float64(-5.765975446808514)], y: [np.float64(6.222837370242223), np.float64(-1.9716312056737593)], z: [np.float64(22.95501730103807), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-36.863247863247864), np.float64(-30.414937759336098)], y: [np.float64(-13.452991452991455), np.float64(-9.684647302904565)], z: [np.float64(55.4957264957265), np.float64(60.63070539419087)]

Conexion: x: [np.float64(-36.863247863247864), np.float64(-5.765975446808514)], y: [np.float64(-13.452991452991455), np.float64(-1.9716312056737593)], z: [np.float64(55.4957264957265), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-36.863247863247864), np.float64(8.006622516556291)], y: [np.float64(-13.452991452991455), np.float64(-2.4635761589403984)], z: [np.float64(48.58730158730158), np.float64(52.09933774834437)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(50.06896551724138)], y: [np.float64(0.1428571428571388), np.float64(7.400000000000006)], z: [np.float64(48.58730158730158), np.float64(40.28965517241379)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(48.9025974025974)], y: [np.float64(0.1428571428571388), np.float64(0.006493506493512768)], y: [np.float64(48.58730158730158), np.float64(44.461038961038966)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(-2.606837606837601)], y: [np.float64(0.1428571428571388), np.float64(12.0)], z: [np.float64(48.58730158730158), np.float64(55.27350427350427)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(-4.55230125523012)], y: [np.float64(0.1428571428571388), np.float64(17.054393305439334)], z: [np.float64(48.58730158730158), np.float64(47.84937238493724)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(-3.75)], y: [np.float64(0.1428571428571388), np.float64(-2.146551724137936)], z: [np.float64(48.58730158730158), np.float64(62.758620689655174)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(7.942446043165461)], y: [np.float64(0.1428571428571388), np.float64(14.050359712230204)], z: [np.float64(48.58730158730158), np.float64(49.99290780141844)]
Conexion: x: [np.float64(-41.230158730158735), np.float64(6.018018018018012)], y: [np.float64(-7.425196850393704), np.float64(9.360360360360374)], z: [np.float64(48.01574803149606), np.float64(59.29729729729)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-36.863247863247864)], y: [np.float64(-19.64980544747081), np.float64(-13.452991452991455)], z: [np.float64(59.29961089494162), np.float64(5.4957264957265)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-31.45736431085267)], y: [np.float64(-19.64980544747081), np.float64(-25.054263565891475)], z: [np.float64(59.29961089494162), np.float64(6.372868217054264)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-30.414937759336098)], y: [np.float64(-19.64980544747081), np.float64(-9.684647302904565)], z: [np.float64(59.29961089494162), np.float64(60.63070539419087)]
Conexion: x: [np.float64(-35.41634241245136), np.float64(-5.765975446808514)], y: [np.float64(-19.64980544747081), np.float64(-1.9716312056737593)], z: [np.float64(59.29961089494162), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-53.05882352941177), np.float64(-5.765975446808514)], y: [np.float64(6.222837370242223), np.float64(-1.9716312056737593)], z: [np.float64(22.95501730103807), np.float64(50.99290780141844)]
Conexion: x: [np.float64(-36.863247863247864), np.float64(-30.414937759336098)], y: [np.float64(-13.452991452991455), np.float64(-9.684647302904565)], z: [np.float64(55.4957264957265), np.float64(60.63070539419087)]

079365079225)], np.float64(4.405228758169926)], z: [np.float64(22.007936507936506), np.float64(31.60130718954248)]
Conexion: x: [np.float64(59.523809523809526), np.float64(48.87248322147651)], y: [np.float64(4.4365079365079225), np.float64(-4.919463087248317)], z: [np.float64(22.007936507936506), np.float64(15.832214765100673)]
Conexion: x: [np.float64(36.86466165413534), np.float64(36.7421875)], y: [np.float64(-11.353383458646618), np.float64(-23.2578125)], y: [np.float64(57.87969924812029), np.float64(59.7578125)]
Conexion: x: [np.float64(36.86466165413534), np.float64(40.169117647058826)], y: [np.float64(-11.353383458646618), np.float64(-11.477941176470594)], z: [np.float64(57.87969924812029), np.float64(54.95588235294119)]
Conexion: x: [np.float64(36.86466165413534), np.float64(30.1991341991342)], y: [np.float64(-11.353383458646618), np.float64(-16.701298701298697)], z: [np.float64(57.87969924812029), np.float64(65.96536796536796)]
Conexion: x: [np.float64(24.25)], np.float64(17.487499999999997)], y: [np.float64(-18.84375), np.float64(-20.299999999999997)], z: [np.float64(77.34375), np.float64(71.26249999999999)]
Conexion: x: [np.float64(51.239852398523986), np.float64(48.9025974025974)], y: [np.float64(-7.4538745387453815), np.float64(0.006493506493512768)], z: [np.float64(41.055350553505534), np.float64(4.461038961038966)]
Conexion: x: [np.float64(51.239852398523986), np.float64(45.4527027027027)], y: [np.float64(-7.4538745387453815), np.float64(-12.891891891891888)], z: [np.float64(41.055350553505534), np.float64(48.12837837837837)]
Conexion: x: [np.float64(36.7421875), np.float64(40.169117647058826)], y: [np.float64(-23.2578125), np.float64(-11.477941176470594)], z: [np.float64(59.7578125), np.float64(54.95588235294119)]
Conexion: x: [np.float64(36.7421875), np.float64(30.1991341991342)], y: [np.float64(-23.2578125), np.float64(-16.701298701298697)], z: [np.float64(59.7578125), np.float64(65.96536796536796)]
Conexion: x: [np.float64(50.06896551724138), np.float64(48.9025974025974)], y: [np.float64(7.400000000000006), np.float64(0.006493506493512768)], z: [np.float64(40.28965517241379), np.float64(44.461038961038966)]
Conexion: x: [np.float64(50.06896551724138), np.float64(52.66013071895425)], y: [np.float64(7.400000000000006), np.float64(4.405228758169926)], z: [np.float64(40.28965517241379), np.float64(31.60130718954248)]
Conexion: x: [np.float64(50.06896551724138), np.float64(-2.606837606837601)], y: [np.float64(7.400000000000006), np.float64(12.0)], z: [np.float64(40.28965517241379), np.float64(55.27350427350427)]
Conexion: x: [np.float64(50.06896551724138), np.float64(-4.55230125523012)], y: [np.float64(7.400000000000006), np.float64(17.054393305439334)], z: [np.float64(40.28965517241379), np.float64(47.84937238493724)]
Conexion: x: [np.float64(50.06896551724138), np.float64(7.942446043165461)], y: [np.float64(7.400000000000006), np.float64(14.050359712230204)], z: [np.float64(40.28965517241379), np.float64(49.99290780141844)]
Conexion: x: [np.float64(50.06896551724138), np.float64(6.018018018018012)], y: [np.float64(7.400000000000006), np.float64(9.360360360360374)], z: [np.float64(40.28965517241379), np.float64(59.29729729729)]
Conexion: x: [np.float64(26.384615384615387), np.float64(18.78857142857143)], y: [np.float64(-25.61

5384615384613), np.float64(-26.651428571428568)], z: [np.float64(67.35042735042734), np.float64(73.31428571428572)]
Conexion: x: [np.float64(26.384615384615387), np.float64(30.1991341991342)], y: [np.float64(-25.615384615384613), np.float64(-16.701298701298697)], z: [np.float64(67.35042735042734), np.float64(65.96536796536796)]
Conexion: x: [np.float64(48.9025974025974), np.float64(-2.606837606837601)], y: [np.float64(0.006493506493512768), np.float64(12.0)], z: [np.float64(44.461038961038966), np.float64(55.27350427350427)]
Conexion: x: [np.float64(48.9025974025974), np.float64(-3.75)], y: [np.float64(0.006493506493512768), np.float64(-2.146551724137936)], z: [np.float64(44.461038961038966), np.float64(62.758620689655174)]
Conexion: x: [np.float64(48.9025974025974), np.float64(6.018018018018012)], y: [np.float64(0.006493506493512768), np.float64(9.360360360360374)], z: [np.float64(44.461038961038966), np.float64(59.29729729729)]
Conexion: x: [np.float64(48.9025974025974), np.float64(8.006622516556291)], y: [np.float64(0.006493506493512768), np.float64(-2.4635761589403984)], z: [np.float64(44.461038961038966), np.float64(52.09933774834437)]
Conexion: x: [np.float64(40.169117647058826), np.float64(45.4527027027027)], y: [np.float64(-11.477941176470594), np.float64(-12.891891891891888)], z: [np.float64(54.95588235294119), np.float64(48.12837837837837)]
Conexion: x: [np.float64(18.78857142857143), np.float64(17.487499999999997)], y: [np.float64(-26.651428571428568), np.float64(-20.299999999999997)], z: [np.float64(73.31428571428572), np.float64(71.26249999999999)]
Conexion: x: [np.float64(-4.495327102803742), np.float64(-5.7251184834123166)], y: [np.float64(-50.65420560747664), np.float64(-50.66350710900474)], z: [np.float64(59.70093457943926), np.float64(65.60189573459715)]
Conexion: x: [np.float64(-4.495327102803742), np.float64(-4.382113821138205)], y: [np.float64(-50.65420560747664), np.float64(-61.8780487804878)], z: [np.float64(59.70093457943926), np.float64(50.3252032503252)]
Conexion: x: [np.float64(-4.495327102803742), np.float64(-6.797153024911026)], y: [np.float64(-50.65420560747664), np.float64(-45.580071174377224)], z: [np.float64(59.70093457943926), np.float64(53.978647686832744)]
Conexion: x: [np.float64(-4.495327102803742), np.float64(5.740585774058573)], y: [np.float64(-50.65420560747664), np.float64(-48.04167364016736)], z: [np.float64(59.70093457943926), np.float64(58.987447698744774)]
Conexion: x: [np.float64(-10.644808743169392), np.float64(-5.7251184834123166)], y: [np.float64(-5.465573770491804), np.float64(-50.66350710900474)], z: [np.float64(70.18579234972677), np.float64(65.60189573459715)]
Conexion: x: [np.float64(-10.644808743169392), np.float64(-10.452991452991455)], y: [np.float64(-5.465573770491804), np.float64(-45.16239316239316)], z: [np.float64(70.18579234972677), np.float64(67.346153846153845)]
Conexion: x: [np.float64(-5.976095617529879), np.float64(-6.972111553784856)], y: [np.float64(-57.69721115537848), np.float64(-63.31474103585657)], z: [np.float64(31.434262948207177), np.float64(27.

856573705179287]]
Conexion: x: [np.float64(-5.976095617529879), np.float64(-10.733668341708537)], y: [np.float64(-57.6972115537848), np.float64(-51.1608040201005)], z: [np.float64(31.434262948207177), np.float64(11.32663316582915)]
Conexion: x: [np.float64(-5.976095617529879), np.float64(-7.268817204301072)], y: [np.float64(-57.6972115537848), np.float64(-50.200716845878134)], z: [np.float64(31.434262948207177), np.float64(41.096774193548384)]
Conexion: x: [np.float64(-5.976095617529879), np.float64(9.978339350180505)], y: [np.float64(-57.6972115537848), np.float64(-55.277978339350184)], z: [np.float64(31.434262948207177), np.float64(-27.53068592057761)]
Conexion: x: [np.float64(-6.97211553784856), np.float64(-10.733668341708537)], y: [np.float64(-63.31474103585657), np.float64(-51.1608040201005)], z: [np.float64(27.856573705179287), np.float64(11.32663316582915)]
Conexion: x: [np.float64(-6.97211553784856), np.float64(-3.8631178707224336)], y: [np.float64(-63.31474103585657), np.float64(-68.83650190114068)], z: [np.float64(27.856573705179287), np.float64(41.41444866920152)]
Conexion: x: [np.float64(-5.7251184834123166), np.float64(-10.452991452991455)], y: [np.float64(-50.66350710900474), np.float64(-45.16239316239316)], z: [np.float64(65.60189573459715), np.float64(73.46153846153845)]
Conexion: x: [np.float64(-10.15789473684211), np.float64(-7.233480176211458)], y: [np.float64(-69.91228070175438), np.float64(-75.13656387665199)], z: [np.float64(53.85087719298245), np.float64(44.2550660792952)]
Conexion: x: [np.float64(-10.15789473684211), np.float64(-4.382113821138205)], y: [np.float64(-69.91228070175438), np.float64(-62.09923664122137)], z: [np.float64(53.85087719298245), np.float64(62.1145038167939)]
Conexion: x: [np.float64(-10.15789473684211), np.float64(-10.320610687022906)], y: [np.float64(-69.91228070175438), np.float64(-62.09923664122137)], z: [np.float64(53.85087719298245), np.float64(62.1145038167939)]
Conexion: x: [np.float64(-10.733668341708537), np.float64(13.460396039603964)], y: [np.float64(-51.1608040201005), np.float64(-48.069306930693074)], z: [np.float64(11.32663316582915), np.float64(11.33663366336634)]
Conexion: x: [np.float64(-10.733668341708537), np.float64(15.899705014749259)], y: [np.float64(-51.1608040201005), np.float64(-56.90265486725664)], z: [np.float64(11.32663316582915), np.float64(11.722713864306783)]
Conexion: x: [np.float64(-3.8631178707224336), np.float64(-7.233480176211458)], y: [np.float64(-68.83650190114068), np.float64(-75.13656387665199)], z: [np.float64(41.41444866920152), np.float64(44.2550660792952)]
Conexion: x: [np.float64(-3.8631178707224336), np.float64(-4.382113821138205)], y: [np.float64(-68.83650190114068), np.float64(-61.8780487804878)], z: [np.float64(41.41444866920152), np.float64(50.32520325203252)]
Conexion: x: [np.float64(-3.8631178707224336), np.float64(10.775510204081627)], y: [np.float64(-68.83650190114068), np.float64(-69.04489795918367)], z: [np.float64(41.41444866920152), np.float64(37.31428571428572)]

864406779661], np.float64(-70.86538461538461)], z: [np.float64(60.05084745762713), np.float64(54.74038461538461)]
Conexion: x: [np.float64(9.229508196721312), np.float64(7.095435684647299)], y: [np.float64(-60.68852459016394), np.float64(-53.82572614107883)], z: [np.float64(40.88524590163935), np.float64(45.46879668049794)]
Conexion: x: [np.float64(7.707317073170728), np.float64(10.355769230769226)], y: [np.float64(-71.170731707317077), np.float64(-70.86538461538461)], z: [np.float64(47.86178861788618), np.float64(54.74038461538461)]
Conexion: x: [np.float64(7.095435684647299), np.float64(9.263157894736835)], y: [np.float64(-53.82572614107883), np.float64(-45.705263157894734)], z: [np.float64(45.46879668049794), np.float64(45.92982456140351)]
Conexion: x: [np.float64(13.460396039603964), np.float64(15.899705014749259)], y: [np.float64(-48.069306930693074), np.float64(-56.90265486725664)], z: [np.float64(11.33663366336634), np.float64(11.722713864306783)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(-26.297709923664115)], y: [np.float64(4.7735849056603), np.float64(2.015267175572518)], z: [np.float64(8.037735849056602), np.float64(4.4480916030534345)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(-18.97637795275591)], y: [np.float64(4.7735849056603), np.float64(12.842519685039377)], z: [np.float64(8.037735849056602), np.float64(-3.055118110236222)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(-27.807017543859644)], y: [np.float64(4.7735849056603), np.float64(-10.66666666666671)], z: [np.float64(8.037735849056602), np.float64(3.94736842105263)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(30.66666666666664)], y: [np.float64(4.7735849056603), np.float64(2.86597938144331)], z: [np.float64(8.037735849056602), np.float64(5.319587628865975)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(25.544117647058826)], y: [np.float64(4.7735849056603), np.float64(5.330882352941188)], z: [np.float64(8.037735849056602), np.float64(2.286764705882348)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(-3.75)], y: [np.float64(4.77735849056603), np.float64(-2.146551724137936)], z: [np.float64(8.037735849056602), np.float64(62.758620689655174)]
Conexion: x: [np.float64(-24.06037735849057), np.float64(-14.693140794223822)], y: [np.float64(4.7735849056603), np.float64(-15.653429602880802)], z: [np.float64(8.037735849056602), np.float64(7.812274368231044)]
Conexion: x: [np.float64(-26.297709923664115), np.float64(-18.97637795275591)], y: [np.float64(2.015267175572518), np.float64(12.842519685039377)], z: [np.float64(-4.480916030534345), np.float64(-3.055118110236222)]
Conexion: x: [np.float64(-26.297709923664115), np.float64(-27.807017543859644)], y: [np.float64(2.015267175572518), np.float64(-10.66666666666671)], z: [np.float64(-4.480916030534345), np.float64(3.94736842105263)]
Conexion: x: [np.float64(-26.297709923664115), np.float64(23.021897810218974)], y: [np.float64(2.015267175572518), np.float64(14.335766423357654)], z: [np.float64(-4.480916030534345), np.float64(-1.204379562043798)]

Conexion: x: [np.float64(-3.8631178707224336), np.float64(7.707317073170728)], y: [np.float64(-68.83650190114068), np.float64(-71.17073170731707)], z: [np.float64(41.41444866920152), np.float64(47.86178861788618)]
Conexion: x: [np.float64(-7.233480176211458), np.float64(7.707317073170728)], y: [np.float64(-75.13656387665199), np.float64(-71.17073170731707)], z: [np.float64(50.32520325203252), np.float64(47.86178861788618)]
Conexion: x: [np.float64(-4.382113821138205), np.float64(-10.320610687022906)], y: [np.float64(-61.8780487804878), np.float64(-62.09923664122137)], z: [np.float64(50.32520325203252), np.float64(62.145038167939)]
Conexion: x: [np.float64(-4.382113821138205), np.float64(7.707317073170728)], y: [np.float64(-61.8780487804878), np.float64(-71.17073170731707)], z: [np.float64(50.32520325203252), np.float64(47.86178861788618)]
Conexion: x: [np.float64(-4.382113821138205), np.float64(7.095435684647299)], y: [np.float64(-61.8780487804878), np.float64(-53.82572614107883)], z: [np.float64(50.32520325203252), np.float64(45.46879668049794)]
Conexion: x: [np.float64(-10.320610687022906), np.float64(7.627118644067792)], y: [np.float64(-62.09923664122137), np.float64(-63.11864406779661)], z: [np.float64(62.1145038167939), np.float64(60.05084745762713)]
Conexion: x: [np.float64(-7.268817204301072), np.float64(7.095435684647299)], y: [np.float64(-50.200716845878134), np.float64(-53.82572614107883)], z: [np.float64(41.096774193548384), np.float64(45.46879668049794)]
Conexion: x: [np.float64(5.740585774058573), np.float64(7.904761904761898)], y: [np.float64(-48.40167364016736), np.float64(-56.539682539682545)], z: [np.float64(58.987447698744774), np.float64(67.9047619047619)]
Conexion: x: [np.float64(5.740585774058573), np.float64(8.51136363636364)], y: [np.float64(-48.40167364016736), np.float64(-48.022727272727266)], z: [np.float64(58.987447698744774), np.float64(68.5)]
Conexion: x: [np.float64(5.740585774058573), np.float64(7.627118644067792)], y: [np.float64(-48.40167364016736), np.float64(-63.11864406779661)], z: [np.float64(58.987447698744774), np.float64(60.05084745762713)]
Conexion: x: [np.float64(7.904761904761898), np.float64(7.627118644067792)], y: [np.float64(-56.539682539682545), np.float64(-63.11864406779661)], z: [np.float64(67.9047619047619), np.float64(60.05084745762713)]
Conexion: x: [np.float64(10.775510204081627), np.float64(9.229508196721312)], y: [np.float64(-69.04489795918367), np.float64(-60.68852459016394)], z: [np.float64(37.31428571428572), np.float64(40.88524590163935)]
Conexion: x: [np.float64(14.458181818181814), np.float64(9.978339350180505)], y: [np.float64(-61.8545454545455), np.float64(-55.277978339350184)], z: [np.float64(24.35636363636364), np.float64(27.53068592057761)]
Conexion: x: [np.float64(14.458181818181814), np.float64(15.899705014749259)], y: [np.float64(-61.8545454545455), np.float64(-56.90265486725664)], z: [np.float64(24.35636363636364), np.float64(11.722713864306783)]
Conexion: x: [np.float64(7.627118644067792), np.float64(10.355769230769226)], y: [np.float64(-63.11

Conexion: x: [np.float64(-26.297709923664115), np.float64(25.544117647058826)], y: [np.float64(2.015267175572518), np.float64(5.330882352941188)], z: [np.float64(-4.480916030534345), np.float64(2.286764705882348)]
Conexion: x: [np.float64(-26.297709923664115), np.float64(-5.765957446808514)], y: [np.float64(2.015267175572518), np.float64(-1.9716312056737593)], z: [np.float64(-4.480916030534345), np.float64(5.0.99290780141844)]
Conexion: x: [np.float64(-26.297709923664115), np.float64(-7.229090909090914)], y: [np.float64(2.015267175572518), np.float64(-22.814545454545453)], z: [np.float64(-4.480916030534345), np.float64(4.465454545454545)]
Conexion: x: [np.float64(-26.297709923664115), np.float64(-14.693140794223822)], y: [np.float64(2.015267175572518), np.float64(-15.653429602880802)], z: [np.float64(-4.480916030534345), np.float64(7.812274368231044)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(23.021897810218974)], y: [np.float64(12.842519685039377), np.float64(14.335766423357654)], z: [np.float64(-3.055118110236222), np.float64(-4.204379562043798)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(25.544117647058826)], y: [np.float64(12.842519685039377), np.float64(5.330882352941188)], z: [np.float64(-3.055118110236222), np.float64(2.286764705882348)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(-7.402390438247011)], y: [np.float64(12.842519685039377), np.float64(14.446215139442245)], z: [np.float64(-3.055118110236222), np.float64(-4.5179282686525945)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(-11.224137931034477)], y: [np.float64(12.842519685039377), np.float64(10.09482758620689)], z: [np.float64(-3.055118110236222), np.float64(7.534482758620683)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(15.160784313725486)], y: [np.float64(12.842519685039377), np.float64(20.60392156862744)], z: [np.float64(-3.055118110236222), np.float64(-0.666666666666714)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(9.24897959183673)], y: [np.float64(12.842519685039377), np.float64(11.9836736937753)], z: [np.float64(-3.055118110236222), np.float64(14.3632653061224431)]
Conexion: x: [np.float64(-18.97637795275591), np.float64(8.902255639097746)], y: [np.float64(12.842519685039377), np.float64(-11.94736842105263)], z: [np.float64(-3.055118110236222), np.float64(3.7443690902255636)]
Conexion: x: [np.float64(-27.807017543859644), np.float64(31.118942731277535)], y: [np.float64(-10.66666666666671), np.float64(-10.12334801762114)], z: [np.float64(3.94736842105263), np.float64(1.101321585903037)]
Conexion: x: [np.float64(-27.807017543859644), np.float64(30.66666666666664)], y: [np.float64(-10.66666666666671), np.float64(2.86597938144331)], z: [np.float64(3.94736842105263), np.float64(5.319587628865975)]
Conexion: x: [np.float64(-27.807017543859644), np.float64(25.544117647058826)], y: [np.float64(-10.66666666666671), np.float64(5.330882352941188)], z: [np.float64(3.94736842105263), np.float64(2.286764705882348)]
Conexion: x: [np.float64(-27.807017543859644), np.float64(-14.693140794223822)], y: [np.float64(-1

0.666666666666671]], np.float64(-15.653429602888082)], z: [np.float64(3.94736842105263), np.float64(7.812274368231044)]
Conexion: x: [np.float64(15.899705014749259), np.float64(19.481707317073173)], y: [np.float64(-56.90265486725664), np.float64(-63.11585365853658)], z: [np.float64(11.722713864306783), np.float64(9.810975609756099)]
Conexion: x: [np.float64(11.1958041958042), np.float64(13.447204968944106)], y: [np.float64(-85.1048951048951)], np.float64(-72.24844720496895)], z: [np.float64(10.272727272727266), np.float64(11.434782608695656)]
Conexion: x: [np.float64(11.1958041958042), np.float64(16.34042553191489)], y: [np.float64(-85.1048951048951)], np.float64(-79.55623100303951)], z: [np.float64(10.272727272727266), np.float64(3.920972644376903)]
Conexion: x: [np.float64(13.447204968944106), np.float64(19.481707317073173)], y: [np.float64(-72.24844720496895)], np.float64(-63.11585365853658)], z: [np.float64(11.434782608695656), np.float64(9.810975609756099)]
Conexion: x: [np.float64(31.118942731277535), np.float64(30.666666666666664)], y: [np.float64(-10.12334801762114), np.float64(2.86597938144331)], z: [np.float64(1.1101321585903037), np.float64(5.319587628865975)]
Conexion: x: [np.float64(30.666666666666664), np.float64(25.544117647058826)], y: [np.float64(2.86597938144331), np.float64(5.330882352941188)], z: [np.float64(5.319587628865975), np.float64(2.28674705882348)]
Conexion: x: [np.float64(30.666666666666664), np.float64(17.184905660377353)], y: [np.float64(2.86597938144331), np.float64(-16.06037735849057)], z: [np.float64(5.319587628865975), np.float64(6.70186792452825)]
Conexion: x: [np.float64(23.021897810218974), np.float64(25.544117647058826)], y: [np.float64(14.335766423357654), np.float64(5.330882352941188)], z: [np.float64(-4.204379562043798), np.float64(2.28674705882348)]
Conexion: x: [np.float64(23.021897810218974), np.float64(15.160784313725486)], y: [np.float64(14.335766423357654), np.float64(20.60392156862744)], z: [np.float64(-4.204379562043798), np.float64(-0.6666666666666714)]
Conexion: x: [np.float64(23.021897810218974), np.float64(8.902255639097746)], y: [np.float64(14.335766423357654), np.float64(-11.94736842105263)], z: [np.float64(-4.204379562043798), np.float64(3.744360902255636)]
Conexion: x: [np.float64(25.544117647058826), np.float64(-3.75)], y: [np.float64(5.330882352941188), np.float64(-2.146551724137936)], z: [np.float64(2.286764705882348), np.float64(62.758620689655174)]
Conexion: x: [np.float64(25.544117647058826), np.float64(-14.693140794223822)], y: [np.float64(5.330882352941188), np.float64(-15.653429602888082)], z: [np.float64(2.286764705882348), np.float64(7.812274368231044)]
Conexion: x: [np.float64(25.544117647058826), np.float64(16.889763779527556)], y: [np.float64(5.330882352941188), np.float64(12.99212598425197)], z: [np.float64(2.286764705882348), np.float64(12.488188976377955)]
Conexion: x: [np.float64(25.544117647058826), np.float64(17.184905660377353)], y: [np.float64(5.330882352941188), np.float64(-16.06037735849057)], z: [np.float64(2.286764705882348), np.float64(6.70186792452825)]

886792452825)]
Conexion: x: [np.float64(-4.392452830188674), np.float64(-4.782608695652172)], y: [np.float64(49.16981132075472), np.float64(39.565217391304344)], z: [np.float64(-17.932075471698113), np.float64(-21.762845849002375)]
Conexion: x: [np.float64(-4.392452830188674), np.float64(7.361216730038024)], y: [np.float64(49.16981132075472), np.float64(31.787072243346017)], z: [np.float64(-17.932075471698113), np.float64(-18.235741444866918)]
Conexion: x: [np.float64(-4.392452830188674), np.float64(6.67619047619047)], y: [np.float64(49.16981132075472), np.float64(50.9047619047619)], z: [np.float64(-17.932075471698113), np.float64(-18.74285714285714)]
Conexion: x: [np.float64(-4.782608695652172), np.float64(7.361216730038024)], y: [np.float64(39.565217391304344), np.float64(31.787072243346017)], z: [np.float64(-21.762845849082375), np.float64(-18.235741444866918)]
Conexion: x: [np.float64(-4.782608695652172), np.float64(6.67619047619047)], y: [np.float64(39.565217391304344), np.float64(50.9047619047619)], z: [np.float64(-21.762845849082375), np.float64(-18.74285714285714)]
Conexion: x: [np.float64(9.647058823529406), np.float64(7.361216730038024)], y: [np.float64(24.323529411764696), np.float64(31.787072243346017)], z: [np.float64(-21.13235294117647), np.float64(-18.235741444866918)]
Conexion: x: [np.float64(7.361216730038024), np.float64(6.67619047619047)], y: [np.float64(31.787072243346017), np.float64(50.9047619047619)], z: [np.float64(-18.235741444866918), np.float64(-18.74285714285714)]
Conexion: x: [np.float64(-45.52287581699346), np.float64(-48.415430267062305)], y: [np.float64(-14.169934640522882), np.float64(-15.821958456973292)], z: [np.float64(5.8213067973856211), np.float64(14.492581602373889)]
Conexion: x: [np.float64(-45.52287581699346), np.float64(-47.27516778523491)], y: [np.float64(-14.169934640522882), np.float64(-0.6577181208053702)], z: [np.float64(12.503267973856211), np.float64(8.053691275167779)]
Conexion: x: [np.float64(-45.52287581699346), np.float64(49.80377358490566)], y: [np.float64(-14.169934640522882), np.float64(-6.8452830188679314)], z: [np.float64(12.503267973856211), np.float64(-1.607547169811326)]
Conexion: x: [np.float64(-45.52287581699346), np.float64(-58.40466926070039)], y: [np.float64(-14.169934640522882), np.float64(-26.210116731517516)], z: [np.float64(12.503267973856211), np.float64(22.264591439688715)]
Conexion: x: [np.float64(-48.415430267062305), np.float64(-48.571428571428584)], y: [np.float64(-15.821958456973292), np.float64(0.673469387755091)], z: [np.float64(14.492581602373889), np.float64(13.132653061224488)]
Conexion: x: [np.float64(-48.415430267062305), np.float64(-47.27516778523491)], y: [np.float64(-15.821958456973292), np.float64(-0.6577181208053702)], z: [np.float64(14.492581602373889), np.float64(8.053691275167779)]
Conexion: x: [np.float64(-48.415430267062305), np.float64(57.5108359133127)], y: [np.float64(-15.821958456973292), np.float64(-13.708978328173373)], z: [np.float64(14.492581602373889), np.float64(13.87616099071208)]

Conexion: x: [np.float64(-48.415430267062305), np.float64(-58.40466926070039)], y: [np.float64(-15.821958456973292), np.float64(-26.210116731517516)], z: [np.float64(14.492581602373889), np.float64(22.264591439688715)]
Conexion: x: [np.float64(-48.415430267062305), np.float64(-52.10788381742739)], y: [np.float64(-15.821958456973292), np.float64(-22.43983402489627)], z: [np.float64(14.492581602373889), np.float64(10.049792531120332)]
Conexion: x: [np.float64(-48.415430267062305), np.float64(57.080882352941174)], y: [np.float64(-15.821958456973292), np.float64(-27.183823529411768)], z: [np.float64(14.492581602373889), np.float64(12.55147058823529)]
Conexion: x: [np.float64(-48.571428571428584), np.float64(-47.27516778523491)], y: [np.float64(0.673469387755091), np.float64(-0.6577181208053702)], z: [np.float64(13.132653061224488), np.float64(8.053691275167779)]
Conexion: x: [np.float64(53.19557195571956), np.float64(57.5108359133127)], y: [np.float64(-11.291512915129147), np.float64(-13.708978328173373)], z: [np.float64(13.87616099071208)]
Conexion: x: [np.float64(53.19557195571956), np.float64(49.80377358490566)], y: [np.float64(-11.291512915129147), np.float64(-6.8452830188679314)], z: [np.float64(16.678966789667896), np.float64(11.607547169811326)]
Conexion: x: [np.float64(53.19557195571956), np.float64(48.87248322147651)], y: [np.float64(-11.291512915129147), np.float64(-4.919463087248317)], z: [np.float64(16.678966789667896), np.float64(15.832214765100673)]
Conexion: x: [np.float64(57.5108359133127), np.float64(-58.40466926070039)], y: [np.float64(-13.708978328173373), np.float64(-26.210116731517516)], z: [np.float64(13.87616099071208), np.float64(22.264591439688715)]
Conexion: x: [np.float64(57.5108359133127), np.float64(61.65853658536585)], y: [np.float64(-13.708978328173373), np.float64(-24.512195121951223)], z: [np.float64(13.87616099071208), np.float64(22.910569105691053)]
Conexion: x: [np.float64(57.5108359133127), np.float64(-52.10788381742739)], y: [np.float64(-13.708978328173373), np.float64(-22.43983402489627)], z: [np.float64(13.87616099071208), np.float64(10.049792531120332)]
Conexion: x: [np.float64(57.5108359133127), np.float64(57.080882352941174)], y: [np.float64(-13.708978328173373), np.float64(-27.183823529411768)], z: [np.float64(13.87616099071208), np.float64(12.55147058823529)]
Conexion: x: [np.float64(57.5108359133127), np.float64(57.832699619771866)], y: [np.float64(-13.708978328173373), np.float64(-20.00760456273764)], z: [np.float64(13.87616099071208), np.float64(9.14068410646386)]
Conexion: x: [np.float64(49.80377358490566), np.float64(48.87248322147651)], y: [np.float64(-6.8452830188679314), np.float64(-4.919463087248317)], z: [np.float64(11.607547169811326), np.float64(15.832214765100673)]
Conexion: x: [np.float64(49.80377358490566), np.float64(51.52873563218391)], y: [np.float64(-6.8452830188679314), np.float64(4.22988505747125)], z: [np.float64(11.607547169811326), np.float64(5.436781609195407)]
Conexion: x: [np.float64(48.87248322147651), np.float64(51.52873563218391)], y: [np.float64(-4.9194

63087248317], np.float64(4.22988505747125)], z: [np.float64(15.832214765100673), np.float64(5.436781609195407)]
Conexion: x: [np.float64(48.87248322147651), np.float64(8.006622516556291)], y: [np.float64(-4.919463087248317), np.float64(-2.4635761589403984)], z: [np.float64(15.832214765100673), np.float64(52.09933774834437)]
Conexion: x: [np.float64(51.52873563218391), np.float64(58.77922077922078)], y: [np.float64(4.22988505747125), np.float64(5.748917748917762)], z: [np.float64(5.436781609195407), np.float64(-5.79220779220779)]
Conexion: x: [np.float64(-5.765957446808514), np.float64(-2.606837606837601)], y: [np.float64(-1.9716312056737593), np.float64(12.0)], z: [np.float64(50.99290780141844), np.float64(55.27350427350427)]
Conexion: x: [np.float64(-5.765957446808514), np.float64(-5.444444444444443)], y: [np.float64(-1.9716312056737593), np.float64(-15.230158730158735)], z: [np.float64(50.99290780141844), np.float64(56.0952380952381)]
Conexion: x: [np.float64(-5.765957446808514), np.float64(-3.75)], y: [np.float64(-1.9716312056737593), np.float64(-2.146551724137936)], z: [np.float64(50.99290780141844), np.float64(62.758620689655174)]
Conexion: x: [np.float64(-5.765957446808514), np.float64(8.006622516556291)], y: [np.float64(-1.9716312056737593), np.float64(-2.4635761589403984)], z: [np.float64(50.99290780141844), np.float64(52.09933774834437)]
Conexion: x: [np.float64(-5.765957446808514), np.float64(-7.229090909090914)], y: [np.float64(-1.9716312056737593), np.float64(-22.814545454545453)], z: [np.float64(50.99290780141844), np.float64(4.465454545454545)]
Conexion: x: [np.float64(-5.765957446808514), np.float64(-14.693140794223822)], y: [np.float64(-1.9716312056737593), np.float64(-15.653429602888082)], z: [np.float64(50.99290780141844), np.float64(7.812274368231044)]
Conexion: x: [np.float64(-2.606837606837601), np.float64(-4.55230125523012)], y: [np.float64(12.0), np.float64(17.054393305439334)], z: [np.float64(55.27350427350427), np.float64(47.84937238493724)]
Conexion: x: [np.float64(-2.606837606837601), np.float64(-3.75)], y: [np.float64(12.0), np.float64(-2.146551724137936)], z: [np.float64(55.27350427350427), np.float64(62.758620689655174)]
Conexion: x: [np.float64(-2.606837606837601), np.float64(7.942446043165461)], y: [np.float64(12.0), np.float64(14.050359712230204)], z: [np.float64(55.27350427350427), np.float64(49.99280575539568)]
Conexion: x: [np.float64(-2.606837606837601), np.float64(6.018018018018012)], y: [np.float64(12.0), np.float64(9.360360360360374)], z: [np.float64(55.27350427350427), np.float64(59.29729729729729)]
Conexion: x: [np.float64(-6.9795918367346985), np.float64(-5.666666666666671)], y: [np.float64(12.375510204081621), np.float64(20.91397849462365)], z: [np.float64(66.64489795918368), np.float64(62.03225806451613)]
Conexion: x: [np.float64(-6.9795918367346985), np.float64(-8.337777777777774)], y: [np.float64(12.375510204081621), np.float64(2.373333333333335)], z: [np.float64(66.64489795918368), np.float64(69.6533333333334)]
Conexion: x: [np.float64(-6.9795918367346985), np.float64(7.577889447236174)], y: [np.float64(12.375510204081621), np.float64(12.050251256281399)], z: [np.float64(66.64489795918368), np.float64(64.0)]

Conexion: x: [np.float64(-4.55230125523012), np.float64(7.942446043165461)], y: [np.float64(17.05439305439334), np.float64(14.050359712230204)], z: [np.float64(47.84937238493724), np.float64(49.99280575539568)]

Conexion: x: [np.float64(-7.984126984126988), np.float64(-3.75)], y: [np.float64(7.246031746031747), np.float64(-2.146551724137936)], z: [np.float64(71.32539682539684), np.float64(62.758620689655174)]

Conexion: x: [np.float64(-7.984126984126988), np.float64(-8.337777777777774)], y: [np.float64(-7.246031746031747), np.float64(2.373333333333335)], z: [np.float64(71.32539682539684), np.float64(69.6533333333334)]

Conexion: x: [np.float64(-7.984126984126988), np.float64(7.629893238434164)], y: [np.float64(-7.246031746031747), np.float64(-14.313167259786482)], z: [np.float64(71.3167259786482), np.float64(71.19572953736656)]

Conexion: x: [np.float64(-7.984126984126988), np.float64(6.11888111888112)], y: [np.float64(-7.246031746031747), np.float64(-11.258741258741253)], z: [np.float64(71.32539682539684), np.float64(60.93706293706293)]

Conexion: x: [np.float64(-5.444444444444443), np.float64(6.11888111888112)], y: [np.float64(-15.230158730158735), np.float64(-11.258741258741253)], z: [np.float64(64.56.0952380952381), np.float64(60.93706293706293)]

Conexion: x: [np.float64(-3.75), np.float64(-8.337777777777774)], y: [np.float64(-2.146551724137936), np.float64(2.373333333333335)], z: [np.float64(62.758620689655174), np.float64(69.65333333333334)]

Conexion: x: [np.float64(-3.75), np.float64(6.018018018018012)], y: [np.float64(-2.146551724137936), np.float64(9.360360360360374)], z: [np.float64(62.758620689655174), np.float64(59.297297297297297)]

Conexion: x: [np.float64(-3.75), np.float64(6.11888111888112)], y: [np.float64(-2.146551724137936), np.float64(-11.258741258741253)], z: [np.float64(62.758620689655174), np.float64(60.93706293706293)]

Conexion: x: [np.float64(-3.75), np.float64(8.006622516556291)], y: [np.float64(-2.146551724137936), np.float64(-2.4635761589403984)], z: [np.float64(62.758620689655174), np.float64(52.0993377483437)]

Conexion: x: [np.float64(-3.75), np.float64(9.450980392156865)], y: [np.float64(-2.146551724137936), np.float64(-1.1450980392156822)], z: [np.float64(62.758620689655174), np.float64(70.34509803921569)]

Conexion: x: [np.float64(7.629893238434164), np.float64(9.450980392156865)], y: [np.float64(-14.313167259786482), np.float64(-1.1450980392156822)], z: [np.float64(71.19572953736656), np.float64(70.34509803921569)]

Conexion: x: [np.float64(7.942446043165461), np.float64(6.018018018018012)], y: [np.float64(14.050359712230204), np.float64(9.360360360360374)], z: [np.float64(49.99280575539568), np.float64(59.297297297297297)]

Conexion: x: [np.float64(7.942446043165461), np.float64(8.006622516556291)], y: [np.float64(14.050359712230204), np.float64(-2.4635761589403984)], z: [np.float64(49.99280575539568), np.float64(52.0993377483437)]

Conexion: x: [np.float64(12.732283464566933), np.float64(7.577889447236174)], y: [np.float64(14.204

6.27972027972028]]

Conexion: x: [np.float64(-55.79919678714859), np.float64(-55.14960629921259)], y: [np.float64(-43.16458634538156), np.float64(-36.7244094488189)], z: [np.float64(25.510040160642575), np.float64(19.039370078740163)]

Conexion: x: [np.float64(-55.671875), np.float64(-56.669387755102036)], y: [np.float64(-25.625), np.float64(-34.02448979591837)], z: [np.float64(32.73469387751024)]

Conexion: x: [np.float64(-55.671875), np.float64(54.384313725490195)], y: [np.float64(-25.625), np.float64(-28.031372549019608)], z: [np.float64(34.265625), np.float64(38.831372549019605)]

Conexion: x: [np.float64(-56.66938775102036), np.float64(61.65853658536585)], y: [np.float64(-34.02448979591837), np.float64(-24.512195121951223)], z: [np.float64(62.734693877551024), np.float64(2.2.910569105691053)]

Conexion: x: [np.float64(-56.669387755102036), np.float64(58.20083682008368)], y: [np.float64(-34.02448979591837), np.float64(-32.32635983263599)], z: [np.float64(32.734693877551024), np.float64(30.35146443514644)]

Conexion: x: [np.float64(59.506726457399104), np.float64(56.66914498141264)], y: [np.float64(-38.843049327354265), np.float64(-44.75836431226766)], z: [np.float64(26.896860986547082), np.float64(31.36059479553903)]

Conexion: x: [np.float64(59.506726457399104), np.float64(58.20083682008368)], y: [np.float64(-38.843049327354265), np.float64(-32.32635983263599)], z: [np.float64(26.896860986547082), np.float64(30.35146443514644)]

Conexion: x: [np.float64(59.506726457399104), np.float64(55.2129963898917)], y: [np.float64(-38.843049327354265), np.float64(-47.068592057761734)], z: [np.float64(26.896860986547082), np.float64(18.12274368231047)]

Conexion: x: [np.float64(59.506726457399104), np.float64(58.30711610486891)], y: [np.float64(-38.843049327354265), np.float64(-37.752808988764045)], z: [np.float64(26.896860986547082), np.float64(19.101123595505612)]

Conexion: x: [np.float64(61.65853658536585), np.float64(61.24229074889868)], y: [np.float64(-24.512195121951223), np.float64(-20.22026431718062)], z: [np.float64(62.910569105691053), np.float64(28.951541850220266)]

Conexion: x: [np.float64(61.65853658536585), np.float64(58.20083682008368)], y: [np.float64(-24.512195121951223), np.float64(-32.32635983263599)], z: [np.float64(22.910569105691053), np.float64(30.35146443514644)]

Conexion: x: [np.float64(61.65853658536585), np.float64(57.080882352941174)], y: [np.float64(-24.512195121951223), np.float64(-27.183823529411768)], z: [np.float64(22.910569105691053), np.float64(12.55147058823529)]

Conexion: x: [np.float64(61.24229074889868), np.float64(58.20083682008368)], y: [np.float64(-20.22026431718062), np.float64(-32.32635983263599)], z: [np.float64(28.951541850220266), np.float64(30.35146443514644)]

Conexion: x: [np.float64(54.384313725490195), np.float64(58.20083682008368)], y: [np.float64(-28.031372549019608), np.float64(-32.32635983263599)], z: [np.float64(38.831372549019605), np.float64(30.35146443514644)]

Conexion: x: [np.float64(54.384313725490195), np.float64(51.72363636363636)], y: [np.float64(-28.031372549019608), np.float64(-32.54545454545455)], z: [np.float64(38.831372549019605), np.float64(4

72440944883), np.float64(12.050251256281399)], z: [np.float64(64.78740157480314), np.float64(64.0)]

Conexion: x: [np.float64(7.577889447236174), np.float64(6.018018018018012)], y: [np.float64(12.050251256281399), np.float64(9.360360360360374)], z: [np.float64(64.0), np.float64(59.297297297297297)]

Conexion: x: [np.float64(6.018018018018012), np.float64(8.006622516556291)], y: [np.float64(9.360360360360374), np.float64(-2.4635761589403984)], z: [np.float64(59.297297297297297), np.float64(52.09933774834437)]

Conexion: x: [np.float64(6.11888111888112), np.float64(8.006622516556291)], y: [np.float64(-11.258741258741253), np.float64(-2.4635761589403984)], z: [np.float64(60.93706293706293), np.float64(52.09933774834437)]

Conexion: x: [np.float64(6.11888111888112), np.float64(9.450980392156865)], y: [np.float64(-11.258741258741253), np.float64(-1.1450980392156822)], z: [np.float64(60.93706293706293), np.float64(70.34509803921569)]

Conexion: x: [np.float64(-54.13654618473896), np.float64(-55.79919678714859)], y: [np.float64(-46.18473895582329), np.float64(-43.164658634538156)], z: [np.float64(30.955823293172685), np.float64(2.510040160642575)]

Conexion: x: [np.float64(-54.13654618473896), np.float64(-56.669387755102036)], y: [np.float64(-46.18473895582329), np.float64(-34.02448979591837)], z: [np.float64(30.955823293172685), np.float64(62.734693877551024)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(-55.671875)], y: [np.float64(-26.210116731517516), np.float64(-25.625)], z: [np.float64(22.264591439688715), np.float64(34.265625)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(-56.669387755102036)], y: [np.float64(-26.210116731517516), np.float64(-34.02448979591837)], z: [np.float64(22.264591439688715), np.float64(28.734693877551024)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(61.65853658536585)], y: [np.float64(-26.210116731517516), np.float64(-24.512195121951223)], z: [np.float64(22.264591439688715), np.float64(62.910569105691053)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(61.24229074889868)], y: [np.float64(-26.210116731517516), np.float64(-20.22026431718062)], z: [np.float64(22.264591439688715), np.float64(28.951541850220266)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(58.20083682008368)], y: [np.float64(-26.210116731517516), np.float64(-32.32635983263599)], z: [np.float64(22.264591439688715), np.float64(30.35146443514644)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(-55.14960629921259)], y: [np.float64(-26.210116731517516), np.float64(-36.7244094488189)], z: [np.float64(22.264591439688715), np.float64(19.039370078740163)]

Conexion: x: [np.float64(-58.40466926070039), np.float64(57.080882352941174)], y: [np.float64(-26.210116731517516), np.float64(-27.183823529411768)], z: [np.float64(22.264591439688715), np.float64(64.02448979591837)]

Conexion: x: [np.float64(-55.79919678714859), np.float64(-56.669387755102036)], y: [np.float64(-43.164658634538156), np.float64(-34.02448979591837)], z: [np.float64(25.510040160642575), np.float64(31.36059479553903)]

Conexion: x: [np.float64(-55.79919678714859), np.float64(-53.82517482517483)], y: [np.float64(-43.164658634538156), np.float64(-44.328671328671334)], z: [np.float64(25.510040160642575), np.float64(14.204

3.272727272727266]]

Conexion: x: [np.float64(56.66914498141264), np.float64(56.041666666666664)], y: [np.float64(-44.75836431226766), np.float64(-40.150000000000006)], z: [np.float64(31.36059479553903), np.float64(40.45833333333333)]

Conexion: x: [np.float64(56.66914498141264), np.float64(55.2129963898917)], y: [np.float64(-44.75836431226766), np.float64(-47.068592057761734)], z: [np.float64(31.36059479553903), np.float64(18.12274368231047)]

Conexion: x: [np.float64(56.041666666666664), np.float64(51.72363636363636)], y: [np.float64(-40.150000000000006), np.float64(-32.54545454545455)], z: [np.float64(40.45833333333333), np.float64(43.272727272727266)]

Conexion: x: [np.float64(-45.300000000000001), np.float64(-38.61044176706827)], y: [np.float64(-39.90909090910486), np.float64(-7.5421686746988)], z: [np.float64(-38.31818181818182), np.float64(-37.53413654618474)]

Conexion: x: [np.float64(-45.300000000000001), np.float64(-47.09473684210528)], y: [np.float64(0.390909090910486), np.float64(-15.315789473684205)], z: [np.float64(-38.31818181818182), np.float64(-30.252631578947366)]

Conexion: x: [np.float64(-45.300000000000001), np.float64(-54.042735042735046)], y: [np.float64(0.390909090910486), np.float64(-10.299145299145295)], z: [np.float64(-38.31818181818182), np.float64(-30.24786324786325)]

Conexion: x: [np.float64(-45.300000000000001), np.float64(-42.39603960396039)], y: [np.float64(0.390909090910486), np.float64(5.069306930693074)], z: [np.float64(-38.31818181818182), np.float64(-3.6.71287128712871)]

Conexion: x: [np.float64(-45.300000000000001), np.float64(50.0722891566265)], y: [np.float64(0.390909090910486), np.float64(4.204819277108442)], z: [np.float64(-38.31818181818182), np.float64(-40.98795180722892)]

Conexion: x: [np.float64(-54.32075471698113), np.float64(-56.61290322580646)], y: [np.float64(-59.57232704402516), np.float64(-49.5241935483871)], z: [np.float64(-10.333333333333336), np.float64(-1.4.975806451612904)]

Conexion: x: [np.float64(-54.32075471698113), np.float64(-50.9469964664311)], y: [np.float64(-59.57232704402516), np.float64(-53.90106007067138)], z: [np.float64(-10.333333333333336), np.float64(-1.9.32862190812721)]

Conexion: x: [np.float64(-54.32075471698113), np.float64(50.76086956521739)], y: [np.float64(-59.57232704402516), np.float64(-63.91847826086956)], z: [np.float64(-10.333333333333336), np.float64(-1.3.570652173913047)]

Conexion: x: [np.float64(-54.32075471698113), np.float64(54.70918367346939)], y: [np.float64(-59.57232704402516), np.float64(-57.95408163265306)], z: [np.float64(-10.333333333333336), np.float64(-8.25)]

Conexion: x: [np.float64(-54.32075471698113), np.float64(-54.336000000000001)], y: [np.float64(-59.57232704402516), np.float64(-57.592)], z: [np.float64(-10.333333333333336), np.float64(-0.944000000000026)]

Conexion: x: [np.float64(-56.61290322580646), np.float64(-57.94354838709677)], y: [np.float64(-49.5241935483871), np.float64(-41.016129032258064)], z: [np.float64(-14.975806451612904), np.float64(-18.33064516129032)]

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Conexion: x: [np.float64(-56.61290322580646), np.float64(-50.9469964664311)], y: [np.float64(-49.5241935483871), np.float64(-53.90106007067138)], z: [np.float64(-14.975806451612904), np.float64(-19.32862190812721)]

Conexion: x: [np.float64(-56.61290322580646), np.float64(-57.41176470588235), y: [np.float64(-49.5241935483871), np.float64(-46.78151260584201)], z: [np.float64(-14.975806451612904), np.float64(-7.17647058823529)]

Conexion: x: [np.float64(-57.94354838709677), np.float64(-57.11587982832617)], y: [np.float64(-41.016129032258064), np.float64(-34.86695278969957)], z: [np.float64(-18.33064516129032), np.float64(-2.2.858369098712444)]

Conexion: x: [np.float64(-57.94354838709677), np.float64(-45.3333333333334)], y: [np.float64(-41.016129032258064), np.float64(-38.586956521739125)], z: [np.float64(-18.33064516129032), np.float64(-22.014492753623188)]

Conexion: x: [np.float64(-57.94354838709677), np.float64(56.62015503875969)], y: [np.float64(-41.016129032258064), np.float64(-37.13953488372093)], z: [np.float64(-18.33064516129032), np.float64(-2.3.02325581395349)]

Conexion: x: [np.float64(-38.61044176706827), np.float64(-43.029629629629625)], y: [np.float64(-7.5421686746988), np.float64(-26.1037037037037)], z: [np.float64(-37.53413654618474), np.float64(-23.837037037037035)]

Conexion: x: [np.float64(-38.61044176706827), np.float64(-47.09473684210528)], y: [np.float64(-7.5421686746988), np.float64(-15.315789473684205)], z: [np.float64(-37.53413654618474), np.float64(-30.252631578947366)]

Conexion: x: [np.float64(-43.029629629629625), np.float64(-47.09473684210528)], y: [np.float64(-26.1037037037037), np.float64(-15.315789473684205)], z: [np.float64(-23.837037037037035), np.float64(-30.252631578947366)]

Conexion: x: [np.float64(-43.029629629629625), np.float64(-45.3333333333334)], y: [np.float64(-26.1037037037037), np.float64(-38.586956521739125)], z: [np.float64(-23.837037037037035), np.float64(-22.014492753623188)]

Conexion: x: [np.float64(-43.029629629629625), np.float64(-56.061135371179034)], y: [np.float64(-2.6.1037037037037), np.float64(-22.585152838427945)], z: [np.float64(-23.837037037037035), np.float64(-24.41048034934498)]

Conexion: x: [np.float64(-54.042735042735046), np.float64(-52.90836653386455)], y: [np.float64(-10.299145299145295), np.float64(-3.04382477191522)], z: [np.float64(-30.24786324786325), np.float64(-2.6.677290836653384)]

Conexion: x: [np.float64(-54.042735042735046), np.float64(-59.29966329966331)], y: [np.float64(-10.299145299145295), np.float64(-15.9191919191917)], z: [np.float64(-30.24786324786325), np.float64(-18.96969696969697)]

Conexion: x: [np.float64(-57.11587982832617), np.float64(-60.692015209125486)], y: [np.float64(-34.86695278969957), np.float64(-37.30038922813689)], z: [np.float64(-22.858369989712444), np.float64(-12.136882129277566)]

Conexion: x: [np.float64(-50.9469964664311), np.float64(-45.3333333333334)], y: [np.float64(-53.90106007067138), np.float64(-38.586956521739125)], z: [np.float64(-19.32862190812721), np.float64(-2.2.014492753623188)]

Conexion: x: [np.float64(-42.39603960396039), np.float64(-48.079681274900395)], y: [np.float64(5.06

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1.516483516483518]]

Conexion: x: [np.float64(52.20320855614973), np.float64(42.633663366336634)], y: [np.float64(-2.7486631016042793), np.float64(-4.752475247524757)], z: [np.float64(-36.780748663101605), np.float64(-4.0.17821782178218)]

Conexion: x: [np.float64(52.20320855614973), np.float64(56.84137931034483)], y: [np.float64(-2.7486631016042793), np.float64(-3.4758620689655118)], z: [np.float64(-36.780748663101605), np.float64(-2.5.172413793103445)]

Conexion: x: [np.float64(50.76086956521739), np.float64(54.70918367346939)], y: [np.float64(-63.91847826086956), np.float64(-57.95408163265306)], z: [np.float64(-13.570652173913047), np.float64(-8.2.5)]

Conexion: x: [np.float64(50.76086956521739), np.float64(55.02013422818792)], y: [np.float64(-63.91847826086956), np.float64(-49.61744966442953)], z: [np.float64(-13.570652173913047), np.float64(-16.65771812080537)]

Conexion: x: [np.float64(50.76086956521739), np.float64(47.43873517786561)], y: [np.float64(-63.91847826086956), np.float64(-69.77075098814228)], z: [np.float64(-13.570652173913047), np.float64(5.011857707509876)]

Conexion: x: [np.float64(37.74324324324324), np.float64(50.0722891566265)], y: [np.float64(4.702702702702709), np.float64(4.204819277108442)], z: [np.float64(-41.87837837837838), np.float64(-40.98795180722892)]

Conexion: x: [np.float64(37.74324324324324), np.float64(42.633663366336634)], y: [np.float64(4.702702702702709), np.float64(-4.752475247524757)], z: [np.float64(-41.87837837837838), np.float64(-40.17821782178218)]

Conexion: x: [np.float64(37.74324324324324), np.float64(28.80916030534351)], y: [np.float64(4.702702702702709), np.float64(12.297709923664115)], z: [np.float64(-41.87837837837838), np.float64(-38.93893129770992)]

Conexion: x: [np.float64(63.38541666666667), np.float64(56.62015503875969)], y: [np.float64(-28.61458333333333), np.float64(-37.99256585762093)], z: [np.float64(-21.114583333333336), np.float64(-23.02325581395349)]

Conexion: x: [np.float64(63.38541666666667), np.float64(62.82527881040892)], y: [np.float64(-28.61458333333333), np.float64(-27.99256585762093)], z: [np.float64(-21.114583333333336), np.float64(-1.278810408921935)]

Conexion: x: [np.float64(50.0722891566265), np.float64(42.633663366336634)], y: [np.float64(4.204819277108442), np.float64(-4.752475247524757)], z: [np.float64(-40.98795180722892), np.float64(-40.17821782178218)]

Conexion: x: [np.float64(54.70918367346939), np.float64(55.02013422818792)], y: [np.float64(-57.95408163265306), np.float64(-49.61744966442953)], z: [np.float64(-8.25), np.float64(-16.65771812080537)]

Conexion: x: [np.float64(54.70918367346939), np.float64(56.48484848484848)], y: [np.float64(-57.95408163265306), np.float64(-54.34343434343434)], z: [np.float64(-8.25), np.float64(1.4444444444444429)]

Conexion: x: [np.float64(54.70918367346939), np.float64(52.00892857142857)], y: [np.float64(-57.95408163265306), np.float64(-62.49107142857143)], z: [np.float64(-8.25), np.float64(1.4464285714285694)]

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9306930693074), np.float64(12.621513944223096)], z: [np.float64(-36.71287128712871), np.float64(-3.1.322709163346616)]

Conexion: x: [np.float64(-42.39603960396039), np.float64(-37.208163265306126)], y: [np.float64(5.069306930693074), np.float64(17.03673469387755)], z: [np.float64(-36.71287128712871), np.float64(-35.926530612244896)]

Conexion: x: [np.float64(-56.061135371179034), np.float64(-59.29966329966331)], y: [np.float64(-22.585152838427945), np.float64(-15.9191919191917)], z: [np.float64(-24.41048034934498), np.float64(-18.96969696969697)]

Conexion: x: [np.float64(-13.68503937007874), np.float64(-11.224137931034477)], y: [np.float64(17.22834645669292), np.float64(10.09482758620689)], z: [np.float64(10.228346456692918), np.float64(7.534482758620683)]

Conexion: x: [np.float64(-7.402390438247011), np.float64(-11.224137931034477)], y: [np.float64(14.46215139442245), np.float64(10.09482758620689)], z: [np.float64(-4.5179282868525945), np.float64(7.534482758620683)]

Conexion: x: [np.float64(-7.402390438247011), np.float64(15.160784313725486)], y: [np.float64(14.446215139442245), np.float64(20.60392156862744)], z: [np.float64(-4.5179282868525945), np.float64(-0.666666666666714)]

Conexion: x: [np.float64(-7.402390438247011), np.float64(9.24897959183673)], y: [np.float64(14.446215139442245), np.float64(11.983673469387753)], z: [np.float64(-4.5179282868525945), np.float64(1.3632653061224431)]

Conexion: x: [np.float64(-15.031111111111116), np.float64(-11.224137931034477)], y: [np.float64(-4.400000000000006), np.float64(10.09482758620689)], z: [np.float64(7.534482758620683), np.float64(7.534482758620683)]

Conexion: x: [np.float64(-15.031111111111116), np.float64(16.60833333333334)], y: [np.float64(-4.400000000000006), np.float64(-3.241666666666666)], z: [np.float64(20.231111111111105), np.float64(19.849999999999994)]

Conexion: x: [np.float64(-11.224137931034477), np.float64(16.889763779527556)], y: [np.float64(10.09482758620689), np.float64(12.99212598425197)], z: [np.float64(7.534482758620683), np.float64(12.48188976377955)]

Conexion: x: [np.float64(-11.224137931034477), np.float64(15.160784313725486)], y: [np.float64(10.09482758620689), np.float64(20.60392156862744)], z: [np.float64(7.534482758620683), np.float64(-0.666666666666714)]

Conexion: x: [np.float64(-11.224137931034477), np.float64(9.24897959183673)], y: [np.float64(10.09482758620689), np.float64(11.983673469387753)], z: [np.float64(7.534482758620683), np.float64(1.3632653061224431)]

Conexion: x: [np.float64(59.5), np.float64(48.87586206896552)], y: [np.float64(-19.75), np.float64(-16.944827586206898)], z: [np.float64(-25.909090909090907), np.float64(-29.420689655172417)]

Conexion: x: [np.float64(59.5), np.float64(63.38541666666667)], y: [np.float64(-19.75), np.float64(-28.61458333333333)], z: [np.float64(-25.909090909090907), np.float64(-21.114583333333336)]

Conexion: x: [np.float64(59.5), np.float64(62.890625)], y: [np.float64(-19.75), np.float64(-14.375)], z: [np.float64(-25.909090909090907), np.float64(-19.515625)]

Conexion: x: [np.float64(52.20320855614973), np.float64(58.08791208791209)], y: [np.float64(-2.7486631016042793), np.float64(-8.769230769230774)], z: [np.float64(-36.780748663101605), np.float64(-3

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Conexion: x: [np.float64(51.55425219941349), np.float64(54.5502013422818792)], y: [np.float64(-43.64809384164222), np.float64(-49.61744966442953)], z: [np.float64(-24.18181818181818), np.float64(-16.65771812080537)]

Conexion: x: [np.float64(51.55425219941349), np.float64(56.62015503875969)], y: [np.float64(-43.64809384164222), np.float64(-37.13953488372093)], z: [np.float64(-24.18181818181818), np.float64(-23.02325581395349)]

Conexion: x: [np.float64(60.498141263940525), np.float64(55.02013422818792)], y: [np.float64(-42.8501858736059), np.float64(-49.61744966442953)], z: [np.float64(-14.401486988847587), np.float64(-1.6.65771812080537)]

Conexion: x: [np.float64(60.498141263940525), np.float64(56.62015503875969)], y: [np.float64(-42.8501858736059), np.float64(-37.13953488372093)], z: [np.float64(-14.401486988847587), np.float64(-2.3.02325581395349)]

Conexion: x: [np.float64(60.498141263940525), np.float64(61.048780487804876)], y: [np.float64(-42.8501858736059), np.float64(-39.08943089430895)], z: [np.float64(-14.401486988847587), np.float64(-9.22764227642277)]

Conexion: x: [np.float64(60.498141263940525), np.float64(59.13333333333333)], y: [np.float64(-42.8501858736059), np.float64(-46.43333333333334)], z: [np.float64(-14.401486988847587), np.float64(-4.15833333333331)]

Conexion: x: [np.float64(58.08791208791209), np.float64(56.84137931034483)], y: [np.float64(-8.769230769230774), np.float64(-3.4758620689655118)], z: [np.float64(-31.516483516483518), np.float64(-2.5.172413793103445)]

Conexion: x: [np.float64(-60.91970802919707), np.float64(-59.12863070539419)], y: [np.float64(-26.970802919708035), np.float64(-18.116182572614107)], z: [np.float64(-10.248175182481752), np.float64(-11.219917012448136)]

Conexion: x: [np.float64(-60.91970802919707), np.float64(-61.74429223744292)], y: [np.float64(-26.970802919708035), np.float64(-33.98173515981735)], z: [np.float64(-10.248175182481752), np.float64(-3.4520547945205493)]

Conexion: x: [np.float64(-60.91970802919707), np.float64(-60.692015209125486)], y: [np.float64(-26.970802919708035), np.float64(-37.30038022813689)], z: [np.float64(-10.248175182481752), np.float64(-12.136882129277566)]

Conexion: x: [np.float64(-60.83703703703705), np.float64(-57.54909090909092)], y: [np.float64(-42.15555555555555), np.float64(-44.42181818181818)], z: [np.float64(-0.8888888888888857), np.float64(6.530909090909091)]

Conexion: x: [np.float64(-60.83703703703705), np.float64(-57.41176470588235)], y: [np.float64(-42.15555555555555), np.float64(-46.78151260504201)], z: [np.float64(-0.8888888888888857), np.float64(-7.17647058823529)]

Conexion: x: [np.float64(-60.83703703703705), np.float64(-62.16788321167883)], y: [np.float64(-42.15555555555555), np.float64(-29.890510948905103)], z: [np.float64(-0.8888888888888857), np.float64(2.6715328467153288)]

Conexion: x: [np.float64(-60.83703703703705), np.float64(-61.74429223744292)], y: [np.float64(-42.15555555555555), np.float64(-33.98173515981735)], z: [np.float64(-0.8888888888888857), np.float64(-3.4520547945205493)]

Conexion: x: [np.float64(-47.2018793427229), np.float64(-53.52678541248572)], y: [np.float64(-57.4

36619718309856], np.float64(-51.21428571428571)], z: [np.float64(17.981220657276992), np.float64(15.580357142857139)]

Conexion: x: [np.float64(-47.20187793427229), np.float64(-49.939086294416256)], y: [np.float64(-57.436619718309856), np.float64(-59.4010152284264)], z: [np.float64(17.981220657276992), np.float64(11.17766497461929)]

Conexion: x: [np.float64(-47.20187793427229), np.float64(-44.478048780487796)], y: [np.float64(-57.436619718309856), np.float64(-66.79024390243902)], z: [np.float64(17.981220657276992), np.float64(17.014634146341464)]

Conexion: x: [np.float64(-54.6778523489933), np.float64(-52.90836653386455)], y: [np.float64(-5.429530201342288), np.float64(-3.04382470119522)], z: [np.float64(-15.583892617449663), np.float64(-26.677290836653384)]

Conexion: x: [np.float64(-54.6778523489933), np.float64(-59.12863070539419)], y: [np.float64(-5.429530201342288), np.float64(-18.116182572614107)], z: [np.float64(-15.583892617449663), np.float64(-11.219917012448136)]

Conexion: x: [np.float64(-54.6778523489933), np.float64(-59.29966329966331)], y: [np.float64(-5.429530201342288), np.float64(-15.9191919191917)], z: [np.float64(-15.583892617449663), np.float64(-18.96969696969697)]

Conexion: x: [np.float64(-54.6778523489933), np.float64(-51.60337552742615)], y: [np.float64(-5.429530201342288), np.float64(-1.7974683544303787)], z: [np.float64(-15.583892617449663), np.float64(-24.42194092827004)]

Conexion: x: [np.float64(-54.6778523489933), np.float64(-50.02105261578954)], y: [np.float64(-5.429530201342288), np.float64(-1.431578947368422)], z: [np.float64(-15.583892617449663), np.float64(-10.280701754385966)]

Conexion: x: [np.float64(-52.90836653386455), np.float64(-51.60337552742615)], y: [np.float64(-3.04382470119522), np.float64(-1.7974683544303787)], z: [np.float64(-26.677290836653384), np.float64(-24.42194092827004)]

Conexion: x: [np.float64(-52.90836653386455), np.float64(-48.079681274900395)], y: [np.float64(-3.04382470119522), np.float64(-12.621513944223096)], z: [np.float64(-48.079681274900395), np.float64(-31.322709163346616)]

Conexion: x: [np.float64(-52.90836653386455), np.float64(-37.208163265306126)], y: [np.float64(-3.04382470119522), np.float64(17.03673469387755)], z: [np.float64(-26.677290836653384), np.float64(-35.926530612244896)]

Conexion: x: [np.float64(-59.12863070539419), np.float64(-59.5655172413793)], y: [np.float64(-18.116182572614107), np.float64(-16.8689651241378)], z: [np.float64(-11.219917012448136), np.float64(-3.737931034482756)]

Conexion: x: [np.float64(-59.12863070539419), np.float64(-59.29966329966331)], y: [np.float64(-18.116182572614107), np.float64(-15.9191919191917)], z: [np.float64(-11.219917012448136), np.float64(-18.96969696969697)]

Conexion: x: [np.float64(-57.54909090909092), np.float64(-62.16788321167883)], y: [np.float64(-44.42181818181818), np.float64(-29.890510948905103)], z: [np.float64(6.530909090909091), np.float64(2.6715328467153228)]

Conexion: x: [np.float64(-57.54909090909092), np.float64(-53.52678571428572)], y: [np.float64(-44.42181818181818), np.float64(-51.21428571428571)], z: np.float64(6.530909090909091), np.float64(15.5

Conexion: x: [np.float64(-59.5655172413793), np.float64(57.591379310344826)], y: [np.float64(-16.868965517241378), np.float64(-4.09482758620689)], z: [np.float64(-3.737931034482756), np.float64(-5.206896551724142)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(56.44843049327354)], y: [np.float64(-16.868965517241378), np.float64(-17.38116591928251)], z: [np.float64(-3.737931034482756), np.float64(2.1883408071748818)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(58.86852589641434)], y: [np.float64(-16.868965517241378), np.float64(-15.81673306772909)], z: [np.float64(-3.737931034482756), np.float64(-3.6414342629482093)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(56.56677524429968)], y: [np.float64(-16.868965517241378), np.float64(-5.433224755700323)], z: [np.float64(-3.737931034482756), np.float64(-10.54071661237785)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(57.53310104529617)], y: [np.float64(-16.868965517241378), np.float64(-25.547083832752614)], z: [np.float64(-3.737931034482756), np.float64(1.1777003484320545)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(-61.74429223744292)], y: [np.float64(-29.890510948905103), np.float64(-33.98173515981735)], z: [np.float64(2.6715328467153228), np.float64(-3.4520547945205493)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(64.15899581589957)], y: [np.float64(-29.890510948905103), np.float64(-24.26778242677824)], z: [np.float64(2.6715328467153228), np.float64(-8.31799163179916)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(-55.94238683127571)], y: [np.float64(-29.890510948905103), np.float64(-27.588477366255148)], z: [np.float64(2.6715328467153228), np.float64(8.156378600823047)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(-53.07499999999999)], y: [np.float64(-29.890510948905103), np.float64(-18.299999999999997)], z: [np.float64(2.6715328467153228), np.float64(3.191666666666663)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(-52.23938223938225)], y: [np.float64(-29.890510948905103), np.float64(-10.91119691119691)], z: [np.float64(2.6715328467153228), np.float64(-0.8339768339768341)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(-55.87179487179486)], y: [np.float64(-29.890510948905103), np.float64(-33.91452991452991)], z: [np.float64(2.6715328467153228), np.float64(12.777777777777771)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(59.86065573770492)], y: [np.float64(-29.890510948905103), np.float64(-32.786885245901644)], z: [np.float64(2.6715328467153228), np.float64(7.729508196721312)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(56.44843049327354)], y: [np.float64(-29.890510948905103), np.float64(-17.38116591928251)], z: [np.float64(2.6715328467153228), np.float64(2.1883408071748818)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(58.86852589641434)], y: [np.float64(-29.890510948905103), np.float64(-15.81673306772909)], z: [np.float64(2.6715328467153228), np.float64(-3.6414342629482093)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(56.56677524429968)], y: [np.float64(-29.89

80357142857139)]

Conexion: x: [np.float64(-57.54909090909092), np.float64(-52.994818652849744)], y: [np.float64(-44.42181818181818), np.float64(-54.73575129533678)], z: [np.float64(6.530909090909091), np.float64(6.186528497409327)]

Conexion: x: [np.float64(-57.54909090909092), np.float64(59.34166666666667)], y: [np.float64(-44.42181818181818), np.float64(-39.18333333333334)], z: [np.float64(6.530909090909091), np.float64(4.275000000000006)]

Conexion: x: [np.float64(-57.54909090909092), np.float64(-53.82517482517483)], y: [np.float64(-44.42181818181818), np.float64(-44.328671328671334)], z: [np.float64(6.530909090909091), np.float64(16.27972027972028)]

Conexion: x: [np.float64(-57.54909090909092), np.float64(-55.87179487179486)], y: [np.float64(-44.42181818181818), np.float64(-33.91452991452991)], z: [np.float64(6.530909090909091), np.float64(12.777777777777771)]

Conexion: x: [np.float64(-57.41176470588235), np.float64(-60.692015209125486)], y: [np.float64(-46.78151260504201), np.float64(-37.30038022813689)], z: [np.float64(-17.17647058823529), np.float64(-12.1368882129277566)]

Conexion: x: [np.float64(-48.180257510729604), np.float64(-49.939086294416256)], y: [np.float64(-65.76824034334764), np.float64(-59.4010152284264)], z: [np.float64(4.472103004291839), np.float64(11.17766497461929)]

Conexion: x: [np.float64(-48.180257510729604), np.float64(-54.33600000000001)], y: [np.float64(-65.76824034334764), np.float64(-57.592)], z: [np.float64(4.472103004291839), np.float64(-0.944000000000026)]

Conexion: x: [np.float64(-48.180257510729604), np.float64(52.00892857142857)], y: [np.float64(-65.76824034334764), np.float64(-62.49107142857143)], z: [np.float64(4.472103004291839), np.float64(1.4464285714285694)]

Conexion: x: [np.float64(-48.180257510729604), np.float64(47.43873517786561)], y: [np.float64(-65.76824034334764), np.float64(-69.77075098814228)], z: [np.float64(4.472103004291839), np.float64(5.011857707509876)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(-62.16788321167883)], y: [np.float64(-16.868965517241378), np.float64(-29.890510948905103)], z: [np.float64(-3.737931034482756), np.float64(2.6715328467153228)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(-53.291338582677156)], y: [np.float64(-16.868965517241378), np.float64(-3.36220472440994517)], z: [np.float64(-3.737931034482756), np.float64(-4.314960629921259)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(-55.94238683127571)], y: [np.float64(-16.868965517241378), np.float64(-27.588477366255148)], z: [np.float64(-3.737931034482756), np.float64(8.156378600823047)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(-53.07499999999999)], y: [np.float64(-16.868965517241378), np.float64(-18.299999999999997)], z: [np.float64(-3.737931034482756), np.float64(3.191666666666663)]

Conexion: x: [np.float64(-59.5655172413793), np.float64(-52.23938223938225)], y: [np.float64(-16.868965517241378), np.float64(-10.91119691119691)], z: [np.float64(-3.737931034482756), np.float64(-0.8339768339768341)]

0510948905103), np.float64(-5.433224755700323)], z: [np.float64(2.6715328467153228), np.float64(-10.54071661237785)]

Conexion: x: [np.float64(-62.16788321167883), np.float64(57.53310104529617)], y: [np.float64(-29.890510948905103), np.float64(-25.547083832752614)], z: [np.float64(2.6715328467153228), np.float64(1.1777003484320545)]

Conexion: x: [np.float64(-53.52678571428572), np.float64(-52.994818652849744)], y: [np.float64(-51.21428571428571), np.float64(-54.73575129533678)], z: [np.float64(15.580357142857139), np.float64(6.186528497409327)]

Conexion: x: [np.float64(-53.52678571428572), np.float64(-53.82517482517483)], y: [np.float64(-51.21428571428571), np.float64(-44.328671328671334)], z: [np.float64(15.580357142857139), np.float64(16.27972027972028)]

Conexion: x: [np.float64(-61.74429223744292), np.float64(-60.692015209125486)], y: [np.float64(-33.98173515981735), np.float64(-37.30038022813689)], z: [np.float64(-3.4520547945205493), np.float64(-12.136882129277566)]

Conexion: x: [np.float64(-49.939086294416256), np.float64(-44.478048780487796)], y: [np.float64(-59.4010152284264), np.float64(-66.79024390243902)], z: np.float64(11.17766497461929), np.float64(17.014634146341464)]

Conexion: x: [np.float64(-49.939086294416256), np.float64(-52.994818652849744)], y: [np.float64(-59.4010152284264), np.float64(-54.73575129533678)], z: [np.float64(11.17766497461929), np.float64(6.186528497409327)]

Conexion: x: [np.float64(-54.33600000000001), np.float64(-52.994818652849744)], y: [np.float64(-57.592), np.float64(-54.73575129533678)], z: [np.float64(-0.9440000000000026), np.float64(6.186528497409327)]

Conexion: x: [np.float64(-54.33600000000001), np.float64(56.48484848484848)], y: [np.float64(-57.592), np.float64(-54.34343434343434)], z: [np.float64(-0.9440000000000026), np.float64(1.444444444444429)]

Conexion: x: [np.float64(-44.478048780487796), np.float64(51.20987654320987)], y: [np.float64(-66.79024390243902), np.float64(-60.59259525925959)], z: [np.float64(17.014634146341464), np.float64(18.88065843621396)]

Conexion: x: [np.float64(-44.478048780487796), np.float64(47.654901960784315)], y: [np.float64(-66.79024390243902), np.float64(-68.11764705882354)], z: [np.float64(17.014634146341464), np.float64(6.15672549019607848)]

Conexion: x: [np.float64(-51.60337552742615), np.float64(56.84137931034483)], y: [np.float64(1.7974683544303787), np.float64(-3.4758620689655118)], z: [np.float64(-24.42194092827004), np.float64(-25.172413793103445)]

Conexion: x: [np.float64(-51.60337552742615), np.float64(-48.079681274900395)], y: [np.float64(1.7974683544303787), np.float64(12.621513944223096)], z: [np.float64(-24.42194092827004), np.float64(-31.322709163346616)]

Conexion: x: [np.float64(-52.994818652849744), np.float64(59.13333333333333)], y: [np.float64(-54.73575129533678), np.float64(-46.43333333333334)], z: [np.float64(6.186528497409327), np.float64(-4.158333333333331)]

Conexion: x: [np.float64(62.57959183673469), np.float64(59.34166666666667)], y: [np.float64(-34.90612244897959), np.float64(-39.18333333333334)], z: [np.float64(-3.395918367346937), np.float64(4.275

0000000000006]]
Conexion: x: [np.float64(62.57959183673469), np.float64(64.15899581589957)], y: [np.float64(-34.90612244897959), np.float64(-24.26778242677824)], z: [np.float64(-3.395918367346937), np.float64(-8.31799163179916)]]
Conexion: x: [np.float64(62.57959183673469), np.float64(61.048780487804876)], y: [np.float64(-34.90612244897959), np.float64(-39.08943089430895)], z: [np.float64(-3.395918367346937), np.float64(-9.2764227642277)]]
Conexion: x: [np.float64(62.57959183673469), np.float64(62.82527881040892)], y: [np.float64(-34.90612244897959), np.float64(-27.99256055762086)], z: [np.float64(-3.395918367346937), np.float64(-11.278810408921935)]]
Conexion: x: [np.float64(62.57959183673469), np.float64(57.53310104529617)], y: [np.float64(-34.90612244897959), np.float64(-25.54703832752614)], z: [np.float64(-3.395918367346937), np.float64(1.1777003484320545)]]
Conexion: x: [np.float64(59.34166666666667), np.float64(56.23232323232323)], y: [np.float64(-39.183333333334), np.float64(-46.75757575757575)], z: [np.float64(4.275000000000006), np.float64(5.41414141412)]]
Conexion: x: [np.float64(59.34166666666667), np.float64(59.13333333333333)], y: [np.float64(-39.183333333334), np.float64(-46.43333333333334)], z: [np.float64(4.275000000000006), np.float64(-4.1583333333331)]]
Conexion: x: [np.float64(59.34166666666667), np.float64(59.86065573770492)], y: [np.float64(-39.183333333334), np.float64(-32.7868085245901644)], z: [np.float64(4.275000000000006), np.float64(7.729508196721312)]]
Conexion: x: [np.float64(57.508532423208194), np.float64(56.84137931034483)], y: [np.float64(0.8873720136518841), np.float64(-3.4758620689655118)], z: [np.float64(-21.351535836177476), np.float64(-25.172413793103445)]]
Conexion: x: [np.float64(57.508532423208194), np.float64(51.93162393162393)], y: [np.float64(0.8873720136518841), np.float64(12.760683760683747)], z: [np.float64(-21.351535836177476), np.float64(-31.1111111111114)]]
Conexion: x: [np.float64(57.508532423208194), np.float64(57.92825112107624)], y: [np.float64(0.8873720136518841), np.float64(-68.11764705882354)], z: [np.float64(-21.351535836177476), np.float64(-21.98206278026906)]]
Conexion: x: [np.float64(57.508532423208194), np.float64(56.56677524249968)], y: [np.float64(0.8873720136518841), np.float64(-5.433224755700323)], z: [np.float64(-21.351535836177476), np.float64(-10.54071661237785)]]
Conexion: x: [np.float64(51.20987654320987), np.float64(54.94308943089431)], y: [np.float64(-60.59259259259259), np.float64(-50.71544715447155)], z: [np.float64(18.288065843621396), np.float64(14.13821138211378)]]
Conexion: x: [np.float64(51.20987654320987), np.float64(47.654901960784315)], y: [np.float64(-60.59259259259259), np.float64(-68.11764705882354)], z: [np.float64(18.288065843621396), np.float64(16.572549019607848)]]
Conexion: x: [np.float64(51.20987654320987), np.float64(53.86610878661088)], y: [np.float64(-60.59259259259259), np.float64(-58.89539748953975)], z: [np.float64(18.288065843621396), np.float64(9.907949790794973)]]

333333333331]]
Conexion: x: [np.float64(61.048780487804876), np.float64(59.13333333333333)], y: [np.float64(-39.08943089430895), np.float64(-46.43333333333334)], z: [np.float64(-9.22764227642277), np.float64(-4.15833333333331)]]
Conexion: x: [np.float64(62.890625), np.float64(56.84137931034483)], y: [np.float64(-14.375), np.float64(-3.4758620689655118)], z: [np.float64(-19.515625), np.float64(-25.172413793103445)]]
Conexion: x: [np.float64(53.86610878661088), np.float64(52.00892857142857)], y: [np.float64(-58.89539748953975), np.float64(-62.49107142857143)], z: [np.float64(9.907949790794973), np.float64(1.4464285714285694)]]
Conexion: x: [np.float64(52.00892857142857), np.float64(47.43873517786561)], y: [np.float64(-62.49107142857143), np.float64(-69.77075098814228)], z: [np.float64(1.4464285714285694), np.float64(5.011857707509876)]]
Conexion: x: [np.float64(-48.079681274900395), np.float64(-37.208163265306126)], y: [np.float64(12.621513944223096), np.float64(17.03673469387755)], z: [np.float64(-31.322709163346616), np.float64(-35.926530612244896)]]
Conexion: x: [np.float64(-37.208163265306126), np.float64(-25.32046332046332)], y: [np.float64(17.03673469387755), np.float64(10.424710424710412)], z: [np.float64(-35.926530612244896), np.float64(-38.75675675675676)]]
Conexion: x: [np.float64(-37.208163265306126), np.float64(51.93162393162393)], y: [np.float64(17.03673469387755), np.float64(12.760683760683747)], z: [np.float64(-35.926530612244896), np.float64(-31.1111111111114)]]
Conexion: x: [np.float64(-37.208163265306126), np.float64(-33.699604743083)], y: [np.float64(17.03673469387755), np.float64(18.18972320158095)], z: [np.float64(-35.926530612244896), np.float64(-27.73913043478261)]]
Conexion: x: [np.float64(-25.32046332046332), np.float64(-25.04905660377358)], y: [np.float64(10.424710424710412), np.float64(11.418867924528314)], z: [np.float64(-38.75675675675676), np.float64(-29.10188679245283)]]
Conexion: x: [np.float64(51.93162393162393), np.float64(45.45528455284553)], y: [np.float64(12.760683760683747), np.float64(14.21951219512195)], z: [np.float64(-31.1111111111114), np.float64(-37.379837398374)]]
Conexion: x: [np.float64(51.93162393162393), np.float64(57.92825112107624)], y: [np.float64(12.760683760683747), np.float64(9.659192825112115)], z: [np.float64(-31.1111111111114), np.float64(-21.98206278026906)]]
Conexion: x: [np.float64(45.45528455284553), np.float64(38.18018018018018)], y: [np.float64(14.21951219512195), np.float64(17.405405405405418)], z: [np.float64(-37.379837398374), np.float64(-36.972972972972975)]]
Conexion: x: [np.float64(57.92825112107624), np.float64(55.50597609561753)], y: [np.float64(9.659192825112115), np.float64(12.239043824701184)], z: [np.float64(-21.98206278026906), np.float64(-16.9804780876494)]]
Conexion: x: [np.float64(38.18018018018018), np.float64(33.267515923566876)], y: [np.float64(17.405405405405418), np.float64(14.923566878980893)], z: [np.float64(-36.972972972972975), np.float64(-28.35031847133758)]]
Conexion: x: [np.float64(-33.699604743083), np.float64(-25.04905660377358)], y: [np.float64(18.1897

Conexion: x: [np.float64(54.94308943089431), np.float64(56.23232323232323)], y: [np.float64(-50.71544715447155), np.float64(-46.75757575757575)], z: [np.float64(14.113821138211378), np.float64(5.4141414141412)]]
Conexion: x: [np.float64(54.94308943089431), np.float64(53.86610878661088)], y: [np.float64(-50.71544715447155), np.float64(-58.89539748953975)], z: [np.float64(14.113821138211378), np.float64(9.907949790794973)]]
Conexion: x: [np.float64(54.94308943089431), np.float64(55.2129963898917)], y: [np.float64(-50.71544715447155), np.float64(-47.068592057761734)], z: [np.float64(14.113821138211378), np.float64(18.1274368231047)]]
Conexion: x: [np.float64(64.15899581589957), np.float64(62.170212765957444)], y: [np.float64(-24.26778242677824), np.float64(-13.821276595744678)], z: [np.float64(-8.31799163179916), np.float64(-12.970212765957449)]]
Conexion: x: [np.float64(64.15899581589957), np.float64(62.82527881040892)], y: [np.float64(-24.26778242677824), np.float64(-27.99256055762086)], z: [np.float64(-8.31799163179916), np.float64(-11.278810408921935)]]
Conexion: x: [np.float64(64.15899581589957), np.float64(58.86852589641434)], y: [np.float64(-24.26778242677824), np.float64(-15.81673306772909)], z: [np.float64(-8.31799163179916), np.float64(-3.641434269482093)]]
Conexion: x: [np.float64(64.15899581589957), np.float64(57.53310104529617)], y: [np.float64(-24.26778242677824), np.float64(-25.54703832752614)], z: [np.float64(-8.31799163179916), np.float64(1.1777003484320545)]]
Conexion: x: [np.float64(56.48484848484848), np.float64(56.23232323232323)], y: [np.float64(-54.343434343434), np.float64(-46.75757575757575)], z: [np.float64(1.444444444444429), np.float64(5.4141414141412)]]
Conexion: x: [np.float64(56.48484848484848), np.float64(53.86610878661088)], y: [np.float64(-54.343434343434), np.float64(-58.89539748953975)], z: [np.float64(1.444444444444429), np.float64(9.907949790794973)]]
Conexion: x: [np.float64(56.48484848484848), np.float64(52.00892857142857)], y: [np.float64(-54.343434343434), np.float64(-62.49107142857143)], z: [np.float64(1.444444444444429), np.float64(1.4464285714285694)]]
Conexion: x: [np.float64(56.48484848484848), np.float64(59.13333333333333)], y: [np.float64(-54.343434343434), np.float64(-46.43333333333334)], z: [np.float64(1.444444444444429), np.float64(-1.58333333333331)]]
Conexion: x: [np.float64(62.170212765957444), np.float64(62.890625)], y: [np.float64(-13.821276595744678), np.float64(-14.375)], z: [np.float64(-12.970212765957449), np.float64(-19.515625)]]
Conexion: x: [np.float64(62.170212765957444), np.float64(58.86852589641434)], y: [np.float64(-13.821276595744678), np.float64(-15.81673306772909)], z: [np.float64(-12.970212765957449), np.float64(-3.6414342629482093)]]
Conexion: x: [np.float64(62.170212765957444), np.float64(56.56677524249968)], y: [np.float64(-13.821276595744678), np.float64(-5.433224755700323)], z: [np.float64(-12.970212765957449), np.float64(-10.54071661237785)]]
Conexion: x: [np.float64(56.23232323232323), np.float64(59.13333333333333)], y: [np.float64(-46.75757575757575), np.float64(-46.43333333333334)], z: [np.float64(5.414141414141412), np.float64(-4.158

23320158095), np.float64(11.418867924528314)], z: [np.float64(-27.73913043478261), np.float64(-29.10188679245283)]]
Conexion: x: [np.float64(-33.699604743083), np.float64(-42.74380165289256)], y: [np.float64(18.189723320158095), np.float64(19.39669421487602)], z: [np.float64(-27.73913043478261), np.float64(-22.78512396694215)]]
Conexion: x: [np.float64(-51.652830188679246), np.float64(-47.69999999999999)], y: [np.float64(7.992452830188682), np.float64(13.0)], z: [np.float64(-12.671698113207547), np.float64(-15.169230769230772)]]
Conexion: x: [np.float64(-51.652830188679246), np.float64(53.11372549019608)], y: [np.float64(7.992452830188682), np.float64(13.858823529411751)], z: [np.float64(-12.671698113207547), np.float64(-11.788235294117648)]]
Conexion: x: [np.float64(-51.652830188679246), np.float64(-50.021052631578954)], y: [np.float64(7.992452830188682), np.float64(-1.431578947368422)], z: [np.float64(-12.671698113207547), np.float64(-10.280701754385966)]]
Conexion: x: [np.float64(-47.69999999999999), np.float64(-42.74380165289256)], y: [np.float64(13.0)], np.float64(19.39669421487602)], z: [np.float64(-15.169230769230772), np.float64(-22.78512396694215)]]
Conexion: x: [np.float64(-47.69999999999999), np.float64(55.50597609561753)], y: [np.float64(13.0)], np.float64(12.239043824701184)], z: [np.float64(-15.169230769230772), np.float64(-16.98804780876494)]]
Conexion: x: [np.float64(-47.69999999999999), np.float64(53.11372549019608)], y: [np.float64(13.0)], np.float64(13.858823529411751)], z: [np.float64(-15.169230769230772), np.float64(-11.788235294117648)]]
Conexion: x: [np.float64(44.041811846689896), np.float64(33.267515923566876)], y: [np.float64(18.76655052264809), np.float64(14.923566878980893)], z: [np.float64(-23.790940765650552), np.float64(-28.35031847133758)]]
Conexion: x: [np.float64(55.50597609561753), np.float64(53.11372549019608)], y: [np.float64(12.239043824701184), np.float64(13.858823529411751)], z: [np.float64(-16.98804780876494), np.float64(-11.788235294117648)]]
Conexion: x: [np.float64(53.11372549019608), np.float64(58.77922077922078)], y: [np.float64(13.858823529411751), np.float64(5.748917748917762)], z: [np.float64(-11.788235294117648), np.float64(-5.7922079220779)]]
Conexion: x: [np.float64(58.77922077922078), np.float64(-53.291338582677156)], y: [np.float64(5.748917748917762), np.float64(-3.3622047244094517)], z: [np.float64(-5.79220779220779), np.float64(-4.314960629921259)]]
Conexion: x: [np.float64(58.77922077922078), np.float64(-50.021052631578954)], y: [np.float64(5.748917748917762), np.float64(-1.431578947368422)], z: [np.float64(-5.79220779220779), np.float64(-10.280701754385966)]]
Conexion: x: [np.float64(58.77922077922078), np.float64(57.991379310344826)], y: [np.float64(5.748917748917762), np.float64(-4.09482758620689)], z: [np.float64(-5.79220779220779), np.float64(-5.206896551724142)]]
Conexion: x: [np.float64(-52.10788381742739), np.float64(-53.291338582677156)], y: [np.float64(-22.43983402489627), np.float64(-3.3622047244094517)], z: [np.float64(10.049792531120332), np.float64(-

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Conexion: x: [np.float64(-53.29133858267156), np.float64(57.53310104529617)], y: [np.float64(-3.3622047244094517), np.float64(-25.5470383275614)], z: [np.float64(-4.31496629921259), np.float64(1.177703484320545)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(-53.07499999999999)], y: [np.float64(-27.588473766255148), np.float64(-18.299999999999997)], z: [np.float64(8.156378600823047), np.float64(3.191666666666663)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(-55.87179487179486)], y: [np.float64(-27.588473766255148), np.float64(-33.91452991452991)], z: [np.float64(8.156378600823047), np.float64(12.777777777777771)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(58.87878787878787)], y: [np.float64(-27.588473766255148), np.float64(-6.287878787878782)], z: [np.float64(8.156378600823047), np.float64(1.333333333333286)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(57.991379310344826)], y: [np.float64(-27.588473766255148), np.float64(-4.09482758620689)], z: [np.float64(8.156378600823047), np.float64(-5.28696551724142)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(57.83269961971866)], y: [np.float64(-27.588473766255148), np.float64(-20.06760456237364)], z: [np.float64(8.156378600823047), np.float64(9.14068410646386)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(56.44843049327354)], y: [np.float64(-27.588473766255148), np.float64(-17.38116591928251)], z: [np.float64(8.156378600823047), np.float64(2.183408071748818)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(58.86852589641434)], y: [np.float64(-27.588473766255148), np.float64(-15.8167330672909)], z: [np.float64(8.156378600823047), np.float64(-3.6414342629482093)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(56.56677542429968)], y: [np.float64(-27.588473766255148), np.float64(-5.43322475030323)], z: [np.float64(8.156378600823047), np.float64(-10.54071661237785)]
Conexion: x: [np.float64(-55.94238683127571), np.float64(57.53310104529617)], y: [np.float64(-27.588473766255148), np.float64(-25.5470383275614)], z: [np.float64(8.156378600823047), np.float64(1.177703484320545)]
Conexion: x: [np.float64(-53.82517482517483), np.float64(-55.14960629921259)], y: [np.float64(-44.328671328671334), np.float64(-36.7244094488189)], z: [np.float64(16.27972027972028), np.float64(19.03937008740163)]
Conexion: x: [np.float64(-53.82517482517483), np.float64(-55.87179487179486)], y: [np.float64(-44.328671328671334), np.float64(-33.91452991452991)], z: [np.float64(16.27972027972028), np.float64(12.777777777777771)]
Conexion: x: [np.float64(-53.07499999999999), np.float64(-52.23938223938225)], y: [np.float64(-18.299999999999997), np.float64(-10.91119691119691)], z: [np.float64(3.191666666666663), np.float64(-0.833976839768341)]
Conexion: x: [np.float64(-53.07499999999999), np.float64(-55.87179487179486)], y: [np.float64(-18.299999999999997), np.float64(-33.91452991452991)], z: [np.float64(3.191666666666663), np.float64(12.777777777777771)]
Conexion: x: [np.float64(-53.07499999999999), np.float64(58.87878787878787)], y: [np.float64(-18.2

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06896551724142)]
Conexion: x: [np.float64(-52.239382223938225), np.float64(56.44843049327354)], y: [np.float64(-10.911969119691), np.float64(-17.38116591928251)], z: [np.float64(-0.8339768339768341), np.float64(2.183408071748818)]
Conexion: x: [np.float64(-52.239382223938225), np.float64(58.86852589641434)], y: [np.float64(-10.911969119691), np.float64(-15.81673306772909)], z: [np.float64(-0.8339768339768341), np.float64(-3.6414342629482933)]
Conexion: x: [np.float64(-52.239382223938225), np.float64(56.56677542429968)], y: [np.float64(-10.911969119691), np.float64(-5.43324755700323)], z: [np.float64(-0.8339768339768341), np.float64(-1.0.54071661237785)]
Conexion: x: [np.float64(-52.239382223938225), np.float64(57.53310104529617)], y: [np.float64(-10.911969119691), np.float64(-25.54703832752614)], z: [np.float64(-0.8339768339768341), np.float64(1.1777003484329045)]
Conexion: x: [np.float64(-55.87179487179486), np.float64(59.86065573770492)], y: [np.float64(-33.91452991452991), np.float64(-32.786885245901644)], z: [np.float64(12.777777777777777), np.float64(7.729508196721312)]
Conexion: x: [np.float64(-55.87179487179486), np.float64(57.080882352941174)], y: [np.float64(-33.91452991452991), np.float64(-27.183823529411768)], z: [np.float64(12.777777777777771), np.float64(1.2551470588823529)]
Conexion: x: [np.float64(-55.87179487179486), np.float64(56.44843049327354)], y: [np.float64(-33.91452991452991), np.float64(-17.38116591928251)], z: [np.float64(12.777777777777771), np.float64(2.183408071748818)]
Conexion: x: [np.float64(58.878787878787875), np.float64(57.991379310344826)], y: [np.float64(-6.287878787878782), np.float64(-4.09482758620689)], z: [np.float64(1.333333333333286), np.float64(-5.206896551724142)]
Conexion: x: [np.float64(58.878787878787875), np.float64(57.832699619771866)], y: [np.float64(-6.287878787878782), np.float64(-20.0076045627364)], z: [np.float64(1.333333333333286), np.float64(9.140684410646386)]
Conexion: x: [np.float64(58.878787878787875), np.float64(56.44843049327354)], y: [np.float64(-6.287878787878782), np.float64(-17.38116591928251)], z: [np.float64(1.333333333333286), np.float64(2.183408071748818)]
Conexion: x: [np.float64(58.878787878787875), np.float64(58.86852589641434)], y: [np.float64(-6.287878787878782), np.float64(-15.81673306772909)], z: [np.float64(1.333333333333286), np.float64(-3.6414342629482933)]
Conexion: x: [np.float64(55.2129963898917), np.float64(58.30711610486891)], y: [np.float64(-47.068592057761734), np.float64(-37.752808988764045)], z: [np.float64(18.12274368231047), np.float64(19.10123595505612)]
Conexion: x: [np.float64(59.83399209486166), np.float64(59.86065573770492)], y: [np.float64(-35.70750988142292), np.float64(-32.786885245901644)], z: [np.float64(13.29642687747032), np.float64(7.729508196721312)]
Conexion: x: [np.float64(59.83399209486166), np.float64(57.080882352941174)], y: [np.float64(-35.70750988142292), np.float64(-27.183823529411768)], z: [np.float64(13.29642687747032), np.float64(12.55147058823529)]

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Conexion: x: [np.float64(59.83399209486166), np.float64(58.30711610486891)], y: [np.float64(-35.70750988142292), np.float64(-37.752808988764045)], z: [np.float64(13.296442687747032), np.float64(19.101123595505612)]

Conexion: x: [np.float64(59.86065573770492), np.float64(57.080882352941174)], y: [np.float64(-32.786885245901644), np.float64(-37.752808988764045)], z: [np.float64(7.729508196721312), np.float64(12.55147058823529)]

Conexion: x: [np.float64(59.86065573770492), np.float64(57.53310104529617)], y: [np.float64(-32.786885245901644), np.float64(-25.54703832752614)], z: [np.float64(7.729508196721312), np.float64(1.177003484320545)]

Conexion: x: [np.float64(57.080882352941174), np.float64(58.30711610486891)], y: [np.float64(-27.18323529411768), np.float64(-37.752808988764045)], z: [np.float64(12.55147058823529), np.float64(19.101123595505612)]

Conexion: x: [np.float64(57.080882352941174), np.float64(57.832699619771866)], y: [np.float64(-27.18323529411768), np.float64(-20.00760456273764)], z: [np.float64(12.55147058823529), np.float64(9.140684410646386)]

Conexion: x: [np.float64(57.991379310344826), np.float64(58.86852589641434)], y: [np.float64(-4.09482758620689), np.float64(-15.81673306772909)], z: [np.float64(-5.206896551724142), np.float64(-3.6414342629482093)]

Conexion: x: [np.float64(57.991379310344826), np.float64(56.56677524429968)], y: [np.float64(-4.09482758620689), np.float64(-5.433224755700323)], z: [np.float64(-5.206896551724142), np.float64(-10.54071661237785)]

Conexion: x: [np.float64(57.991379310344826), np.float64(57.53310104529617)], y: [np.float64(-4.09482758620689), np.float64(-25.54703832752614)], z: [np.float64(-5.206896551724142), np.float64(1.177003484320545)]

Conexion: x: [np.float64(57.832699619771866), np.float64(56.44843049327354)], y: [np.float64(-20.00760456273764), np.float64(-17.38116591928251)], z: [np.float64(9.140684410646386), np.float64(2.18823408071748818)]

Conexion: x: [np.float64(57.832699619771866), np.float64(57.53310104529617)], y: [np.float64(-20.00760456273764), np.float64(-25.54703832752614)], z: [np.float64(9.140684410646386), np.float64(1.177003484320545)]

Conexion: x: [np.float64(56.44843049327354), np.float64(57.53310104529617)], y: [np.float64(-17.38116591928251), np.float64(-25.54703832752614)], z: [np.float64(2.1883408071748818), np.float64(-3.6414342629482093)]

Conexion: x: [np.float64(56.44843049327354), np.float64(57.53310104529617)], y: [np.float64(-17.38116591928251), np.float64(-25.54703832752614)], z: [np.float64(2.1883408071748818), np.float64(1.177003484320545)]

Conexion: x: [np.float64(58.86852589641434), np.float64(56.56677524429968)], y: [np.float64(-15.81673306772909), np.float64(-5.433224755700323)], z: [np.float64(-3.6414342629482093), np.float64(-10.54071661237785)]

Conexion: x: [np.float64(58.86852589641434), np.float64(57.53310104529617)], y: [np.float64(-15.81673306772909), np.float64(-25.54703832752614)], z: [np.float64(-3.6414342629482093), np.float64(1.177003484320545)]

Conexion: x: [np.float64(56.56677524429968), np.float64(57.53310104529617)], y: [np.float64(-5.4332

(4.461538461538467)]

Conexion: x: [np.float64(-7.268656716417908), np.float64(11.120300751879697)], y: [np.float64(-11.007462686567166), np.float64(-20.21052631578948)], z: [np.float64(5.597014925373131), np.float64(11.954887218045116)]

Conexion: x: [np.float64(-7.268656716417908), np.float64(8.902255639097746)], y: [np.float64(-11.007462686567166), np.float64(-11.94736842105263)], z: [np.float64(4.4654545454545485), np.float64(3.744360902255636)]

Conexion: x: [np.float64(-7.268656716417908), np.float64(17.184905660377353)], y: [np.float64(-11.007462686567166), np.float64(-16.06037735849057)], z: [np.float64(5.597014925373131), np.float64(6.701886792452825)]

Conexion: x: [np.float64(16.608333333333334), np.float64(16.889763779527556)], y: [np.float64(-3.241666666666666), np.float64(12.99212598425197)], z: [np.float64(19.849999999999994), np.float64(12.488188976377955)]

Conexion: x: [np.float64(16.889763779527556), np.float64(9.24897959183673)], y: [np.float64(12.99212598425197), np.float64(11.983673469387753)], z: [np.float64(12.488188976377955), np.float64(1.3632653061224431)]

Conexion: x: [np.float64(15.160784313725486), np.float64(9.24897959183673)], y: [np.float64(20.60392156862744), np.float64(11.983673469387753)], z: [np.float64(-0.666666666666714), np.float64(1.3632653061224431)]

Conexion: x: [np.float64(11.120300751879697), np.float64(8.902255639097746)], y: [np.float64(-20.21052631578948), np.float64(-11.94736842105263)], z: [np.float64(11.954887218045116), np.float64(3.744360902255636)]

Conexion: x: [np.float64(11.120300751879697), np.float64(17.184905660377353)], y: [np.float64(-20.21052631578948), np.float64(-16.06037735849057)], z: [np.float64(11.954887218045116), np.float64(6.701886792452825)]

Conexion: x: [np.float64(11.120300751879697), np.float64(13.646153846153851)], y: [np.float64(-20.21052631578948), np.float64(-27.030769230769238)], z: [np.float64(11.954887218045116), np.float64(4.461538461538467)]

Conexion: x: [np.float64(8.902255639097746), np.float64(17.184905660377353)], y: [np.float64(-11.94736842105263), np.float64(-16.06037735849057)], z: [np.float64(3.744360902255636), np.float64(6.701886792452825)]

Conexion: x: [np.float64(17.184905660377353), np.float64(13.646153846153851)], y: [np.float64(-16.06037735849057), np.float64(-27.030769230769238)], z: [np.float64(6.701886792452825), np.float64(4.461538461538467)]

Conexion: x: [np.float64(-3.418604651162795), np.float64(-4.538745387453872)], y: [np.float64(39.92248062015503), np.float64(46.53874538745387)], z: [np.float64(10.170542635658919), np.float64(3.06273062730628)]

Conexion: x: [np.float64(-4.040485829959508), np.float64(-3.030000000000001)], y: [np.float64(34.68825910931173), np.float64(27.490000000000001)], z: [np.float64(23.603238866396765), np.float64(19.790000000000006)]

Conexion: x: [np.float64(-4.040485829959508), np.float64(-4.923857868020306)], y: [np.float64(34.68825910931173), np.float64(15.319796954314711)], z: [np.float64(23.603238866396765), np.float64(27.73604060913705)]

24755700323), np.float64(-25.54703832752614)], z: [np.float64(-10.54071661237785), np.float64(1.177003484320545)]

Conexion: x: [np.float64(-15.400000000000006), np.float64(-7.229090909090914)], y: [np.float64(-25.599999999999994), np.float64(-22.814545454545453)], z: [np.float64(8.48571428571428), np.float64(4.4654545454545485)]

Conexion: x: [np.float64(-15.400000000000006), np.float64(-14.693140794223822)], y: [np.float64(-25.599999999999994), np.float64(-15.653429602888082)], z: [np.float64(8.48571428571428), np.float64(7.812274368231044)]

Conexion: x: [np.float64(-15.400000000000006), np.float64(11.120300751879697)], y: [np.float64(-25.599999999999994), np.float64(-20.21052631578948)], z: [np.float64(8.48571428571428), np.float64(11.954887218045116)]

Conexion: x: [np.float64(-7.229090909090914), np.float64(-14.693140794223822)], y: [np.float64(-22.814545454545453), np.float64(-15.653429602888082)], z: [np.float64(8.4654545454545485), np.float64(7.812274368231044)]

Conexion: x: [np.float64(-7.229090909090914), np.float64(-7.268656716417908)], y: [np.float64(-22.814545454545453), np.float64(-11.007462686567166)], z: [np.float64(4.4654545454545485), np.float64(5.597014925373131)]

Conexion: x: [np.float64(-7.229090909090914), np.float64(11.120300751879697)], y: [np.float64(-22.814545454545453), np.float64(-20.21052631578948)], z: [np.float64(4.4654545454545485), np.float64(1.954887218045116)]

Conexion: x: [np.float64(-7.229090909090914), np.float64(8.902255639097746)], y: [np.float64(-22.814545454545453), np.float64(-11.94736842105263)], z: [np.float64(4.4654545454545485), np.float64(3.744360902255636)]

Conexion: x: [np.float64(-7.229090909090914), np.float64(17.184905660377353)], y: [np.float64(-22.814545454545453), np.float64(-16.06037735849057)], z: [np.float64(4.4654545454545485), np.float64(6.701886792452825)]

Conexion: x: [np.float64(-7.229090909090914), np.float64(13.646153846153851)], y: [np.float64(-22.814545454545453), np.float64(-27.030769230769238)], z: [np.float64(4.4654545454545485), np.float64(4.461538461538467)]

Conexion: x: [np.float64(-14.693140794223822), np.float64(-7.268656716417908)], y: [np.float64(-15.653429602888082), np.float64(-11.007462686567166)], z: [np.float64(7.812274368231044), np.float64(5.597014925373131)]

Conexion: x: [np.float64(-14.693140794223822), np.float64(11.120300751879697)], y: [np.float64(-15.653429602888082), np.float64(-20.21052631578948)], z: [np.float64(7.812274368231044), np.float64(1.954887218045116)]

Conexion: x: [np.float64(-14.693140794223822), np.float64(8.902255639097746)], y: [np.float64(-15.653429602888082), np.float64(-11.94736842105263)], z: [np.float64(7.812274368231044), np.float64(3.744360902255636)]

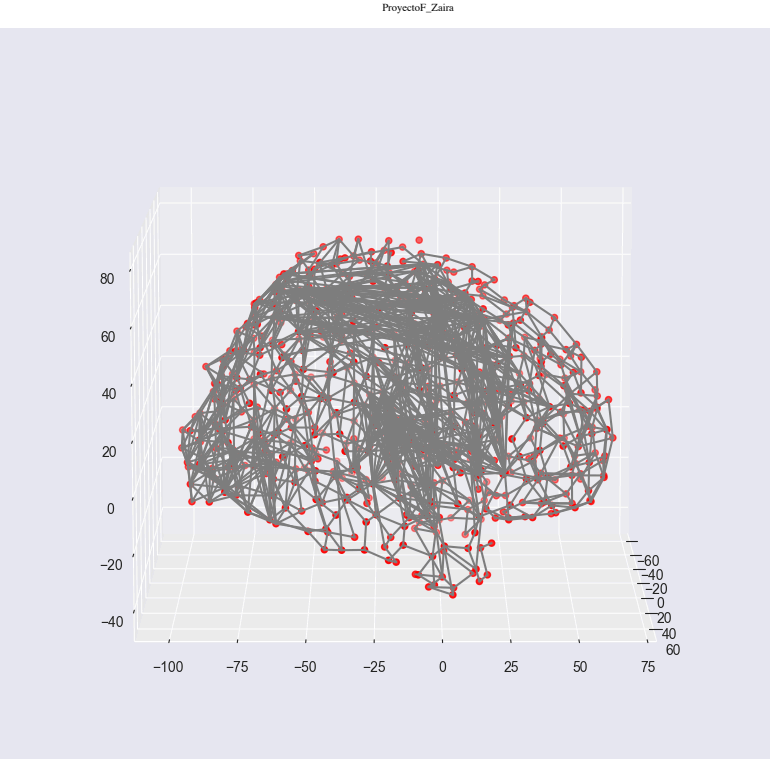
Conexion: x: [np.float64(-14.693140794223822), np.float64(17.184905660377353)], y: [np.float64(-15.653429602888082), np.float64(-16.06037735849057)], z: [np.float64(7.812274368231044), np.float64(6.701886792452825)]

Conexion: x: [np.float64(-14.693140794223822), np.float64(13.646153846153851)], y: [np.float64(-15.653429602888082), np.float64(-27.030769230769238)], z: [np.float64(7.812274368231044), np.float64(6.701886792452825)]

Out[241]: <IPython.core.display.Image object>

Conexion: x: [np.float64(-3.0300000000000001), np.float64(-4.923857868020306)], y: [np.float64(27.490000000000001), np.float64(15.319796954314711)], z: [np.float64(19.790000000000006), np.float64(27.73604060913705)]

Conexion: x: [np.float64(-6.273127753303967), np.float64(-4.538745387453872)], y: [np.float64(34.7048051497797), np.float64(46.53874538745387)], z: [np.float64(-5.092511013215855), np.float64(3.06273062730628)]



https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0c089c339162a519a09/ProyectoF_Zaira.html?t=1732944533587

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https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0c089c339162a519a09/ProyectoF_Zaira.html?t=1732944533587

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- 3
- Encontrar los hubs del grafo, y establecer el tamaño del nodo proporcional al valor del grado

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```
In [242]: pos = {node: coordinates[node] for node in graph.nodes()}

degree_dict = dict(graph.degree(graph.nodes()))
nx.set_node_attributes(graph, degree_dict, 'degree')
node_size = [degree * 20 for degree in degree_dict.values()]

fig = plt.figure(figsize=(10, 10))
ax = fig.add_subplot(111, projection='3d')

nodes = np.array(list(pos.values()))
ax.scatter(nodes[:, 0], nodes[:, 1], nodes[:, 2], c='red', s=node_size)
for edge in graph.edges():
    start, end = pos[edge[0]], pos[edge[1]]
    ax.plot([start[0], end[0]], [start[1], end[1]], [start[2], end[2]], c='gray', linewidth=0.5)

plt.show()
```

https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0c089c339162a519a09/ProyectoF_Zaira.html?t=1732944533587

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https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0e089e339162a519a09/ProyectoF_Zaira.html?t=1732944533587

```
In [243]: hubs = sorted(degree_dict.items(), key=lambda x: x[1], reverse=True)[:5]
print("Hubs del grafo (nodos con mayor grado):")
for hub in hubs:
    print(f"Node: {hub[0]}, Degree: {hub[1]}")

total_hub_nodes = len(hubs)
total_hub_edges = sum([hub[1] for hub in hubs])
print(f"Total de nodes de los hubs: {total_hub_nodes}")
print(f"Total de conexiones de los hubs: {total_hub_edges}")
```

Hubs del grafo (nodos con mayor grado):
Node: 400, Degree: 24
Node: 235, Degree: 23
Node: 330, Degree: 22
Node: 38, Degree: 21
Node: 485, Degree: 21
Total de nodes de los hubs: 5
Total de conexiones de los hubs: 111

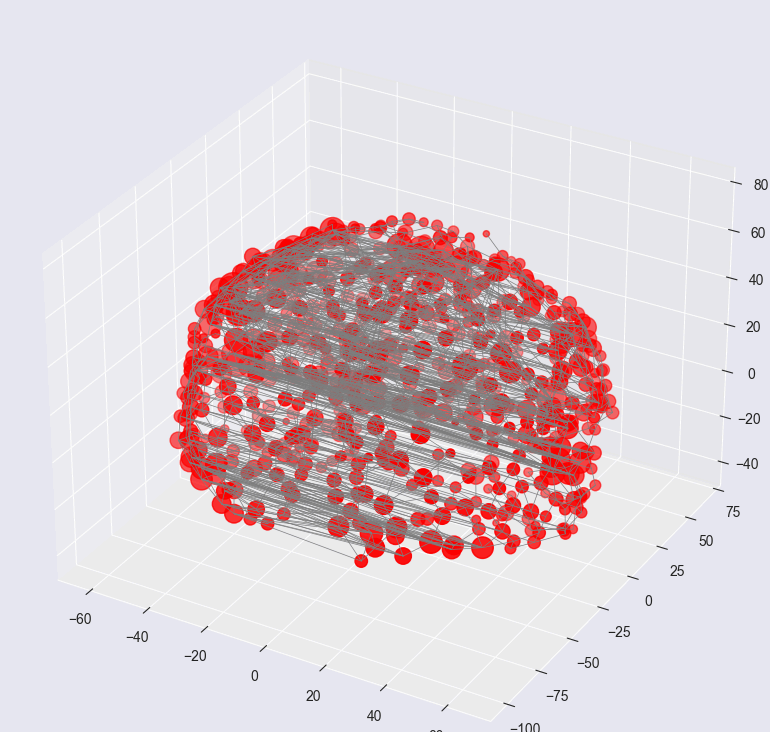
4

- En función de la matriz de emparejamiento (correlación de la matriz de adyacencia), establecer una partición de los nodos en módulos. Escoger el número de módulos que creas conveniente y justificar por qué escogiste ese número.

https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0e089e339162a519a09/ProyectoF_Zaira.html?t=1732944533587

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https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0e089e339162a519a09/ProyectoF_Zaira.html?t=1732944533587

```
In [244]: x, y, z = coordinates[:, 0], coordinates[:, 1], coordinates[:, 2]

min_value = np.min(coactivation_matrix)
max_value = np.max(coactivation_matrix)
print("Valor mínimo:", min_value)
print("Valor máximo:", max_value)

matriz_fil = np.where(coactivation_matrix >= 0.08, coactivation_matrix, 0)
matriz_sfil = np.corrcoef(coactivation_matrix)
matriz_correlacion = np.corrcoef(matriz_fil)

plt.figure(figsize=(15, 5))

plt.subplot(1, 2, 1)
sns.heatmap(coactivation_matrix, cmap='RdGy', vmin=min_value, vmax=max_value)
plt.title("Matriz de Correlación: Tipo Normal")

plt.subplot(1, 2, 2)
sns.heatmap(matriz_fil, cmap='RdGy', vmin=min_value, vmax=max_value)
plt.title("Matriz de Correlación: Tipo Filtrada")

plt.show()
```

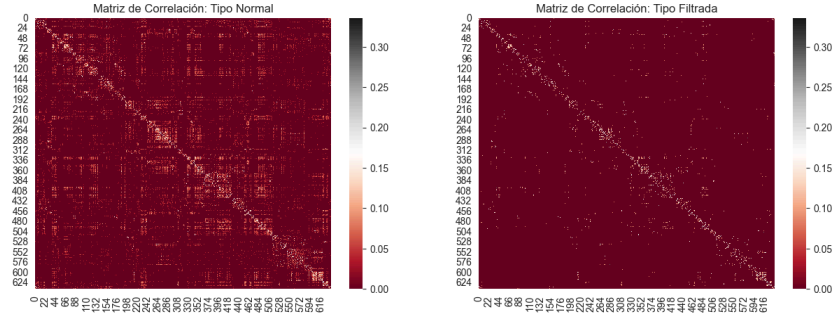
https://htmtopdf.herokuapp.com/ipyviewer/temp/8448768347ebb0e089e339162a519a09/ProyectoF_Zaira.html?t=1732944533587

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Valor mínimo: 0.0
Valor máximo: 0.3355263157894737

/Users/ZvalEnes/Library/Python/3.12/lib/python/site-packages/numpy/lib/_function_base_impl.py:2999:
RuntimeWarning: invalid value encountered in divide
c /= stddev[:, None]
/Users/ZvalEnes/Library/Python/3.12/lib/python/site-packages/numpy/lib/_function_base_impl.py:3000:
RuntimeWarning: invalid value encountered in divide
c /= stddev[None, :]



In [245]:

```
G = nx.Graph()
for i in range(matriz_fil.shape[0]):
    for j in range(i + 1, matriz_fil.shape[1]):
        if matriz_fil[i, j] > 0:
            G.add_edge(i, j, weight=matriz_fil[i, j])

# greedy_modularity_communities para detectar comunidades
communities = list(nx.algorithms.community.greedy_modularity_communities(G))

pos = {i: (x[i], y[i], z[i]) for i in range(matriz_fil.shape[0])}
colors = sns.color_palette("hsv", len(communities))

fig = plt.figure(figsize=(10, 7))
ax = fig.add_subplot(111, projection='3d')

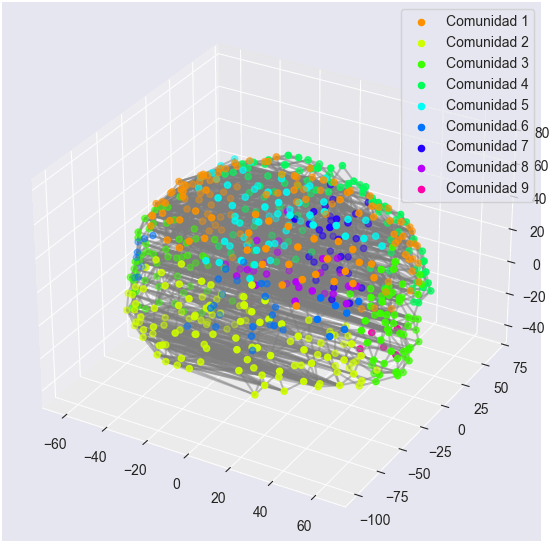
for i, community in enumerate(communities):
    community_nodes = list(community)
    ax.scatter(x[community_nodes], y[community_nodes], z[community_nodes], color=colors[i], label=f'Comunidad {i+1}')

for edge in G.edges():
    x_coords = [pos[edge[0]][0], pos[edge[1]][0]]
    y_coords = [pos[edge[0]][1], pos[edge[1]][1]]
    z_coords = [pos[edge[0]][2], pos[edge[1]][2]]
    ax.plot(x_coords, y_coords, z_coords, color='gray', alpha=0.5)

ax.set_title("Comunidades usando la Matriz Filtrada")
ax.legend()
plt.show()

for i, community in enumerate(communities):
    print(f'Comunidad {i+1}: {list(community)}')
```

Comunidades usando la Matriz Filtrada



Comunidad 1: [7, 16, 19, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 57, 58, 62, 63, 64, 65, 67, 68, 69, 70, 73, 76, 79, 80, 93, 94, 97, 100, 114, 118, 121, 124, 125, 126, 129, 130, 131, 133, 135, 140, 143, 154, 185, 186, 192, 193, 230, 231, 232, 235, 236, 237, 286, 293, 296, 298, 303, 327, 328, 329, 330, 331, 332, 333, 334, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 364, 365, 368, 369, 370, 371, 372, 375, 397, 398, 399, 400, 401, 403, 404, 405, 406, 407, 408, 410, 412, 416, 418, 421, 423, 430, 436, 440, 444, 450, 481, 482, 485, 486, 487, 488, 489, 490, 491, 494, 495, 496, 497, 509, 511]
Comunidad 2: [513, 258, 257, 259, 260, 516, 261, 517, 264, 521, 263, 265, 262, 266, 267, 270, 268, 272, 271, 275, 276, 277, 273, 278, 25, 26, 274, 28, 27, 30, 280, 29, 33, 34, 31, 32, 284, 290, 36, 289, 291, 292, 35, 551, 300, 301, 557, 302, 304, 305, 54, 311, 312, 313, 570, 314, 310, 315, 316, 575, 317, 318, 576, 580, 523, 269, 335, 336, 337, 340, 341, 342, 343, 530, 532, 279, 281, 536, 282, 537, 283, 148, 539, 285, 288, 194, 195, 196, 197, 198, 199, 200, 457, 458, 201, 460, 203, 202, 204, 205, 206, 207, 208, 209, 210, 211, 212, 215, 216, 217, 218, 224, 225, 226, 227, 242, 243, 245, 248, 249, 252, 253, 254]
Comunidad 3: [512, 514, 515, 518, 519, 520, 522, 524, 529, 531, 533, 534, 535, 538, 540, 541, 542, 543, 544, 546, 547, 548, 549, 550, 552, 553, 554, 555, 558, 559, 561, 562, 563, 564, 565, 567, 568, 571, 572, 573, 574, 577, 578, 579, 581, 582, 584, 587, 590, 591, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 367, 373, 374, 376, 377, 379, 383, 384, 385, 392, 393, 411, 414, 213, 214, 472, 473, 474, 475, 476, 477, 478, 479, 480, 228, 229, 233, 234, 238, 239, 240, 241, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 510]
Comunidad 4: [47, 48, 49, 50, 51, 53, 55, 56, 59, 60, 61, 66, 71, 72, 74, 75, 77, 78, 87, 88, 89, 90, 91, 92, 95, 96, 98, 99, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 115, 116, 117, 119, 120, 122, 123, 127, 128, 132, 134, 136, 137, 138, 141, 142, 144, 145, 146, 147, 149, 151, 152, 156, 159, 160, 163, 164, 167, 168, 169, 170, 172, 173, 174, 176, 178, 179, 180, 181, 182, 183, 184, 187, 188, 189, 190, 191, 483, 484, 492, 493]
Comunidad 5: [386, 387, 388, 389, 390, 391, 8, 9, 394, 5, 11, 395, 13, 14, 396, 10, 17, 402, 20, 18, 21, 15, 409, 413, 415, 417, 419, 420, 422, 424, 425, 426, 429, 432, 433, 434, 435, 437, 438, 439, 441, 442, 12, 445, 447, 319, 448, 320, 321, 322, 323, 324, 325, 326, 449, 363, 366, 498, 378, 380, 381, 382]
Comunidad 6: [256, 22, 23, 24, 287, 545, 294, 295, 297, 299, 427, 428, 556, 431, 560, 566, 569, 443, 446, 451, 456, 459, 461, 338, 339, 219, 220, 221, 222, 223, 244, 246, 247, 250, 251, 255]
Comunidad 7: [0, 1, 2, 3, 4, 150, 153, 155, 157, 158, 161, 162, 165, 166, 175, 177, 81, 82, 466, 467, 469, 83, 85, 84, 470, 471, 86, 632, 633, 634, 635, 636, 637]
Comunidad 8: [452, 453, 6, 454, 455, 525, 462, 526, 463, 527, 464, 465, 528, 620, 621, 622, 623, 624, 625, 626, 627, 628, 308, 306, 631, 309, 307, 629, 630]
Comunidad 9: [583, 585, 586, 171, 588, 589, 592, 593, 594, 595, 468, 52]

Respuesta:

" Escoger el número de módulos que creas conveniente y justificar por qué escogiste ese número. "

- Es interesante ver la distribución de los nodos en diferentes comunidades. Elegi el de la Comunidad 1. Esta comunidad es la más grande, con un gran número de nodos. Creo que esto indica que los nodos dentro de esta comunidad están más fuertemente interconectados entre sí que con los nodos fuera de la comunidad.
- Justifico que: Es posible que esta comunidad represente un clúster central o una sub-red muy densa dentro del grafo, donde las conexiones entre los nodos son frecuentes y fuertes.

5

- Determinar el conjunto del Rich Club y discutir las implicaciones anatómicas y funcionales de este grupo de nodos (mínimo 100 palabras).

In [246]:

```
import scipy.io
import numpy as np
import networkx as nx
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D

pos = {node: coordinates[node] for node in graph.nodes()}

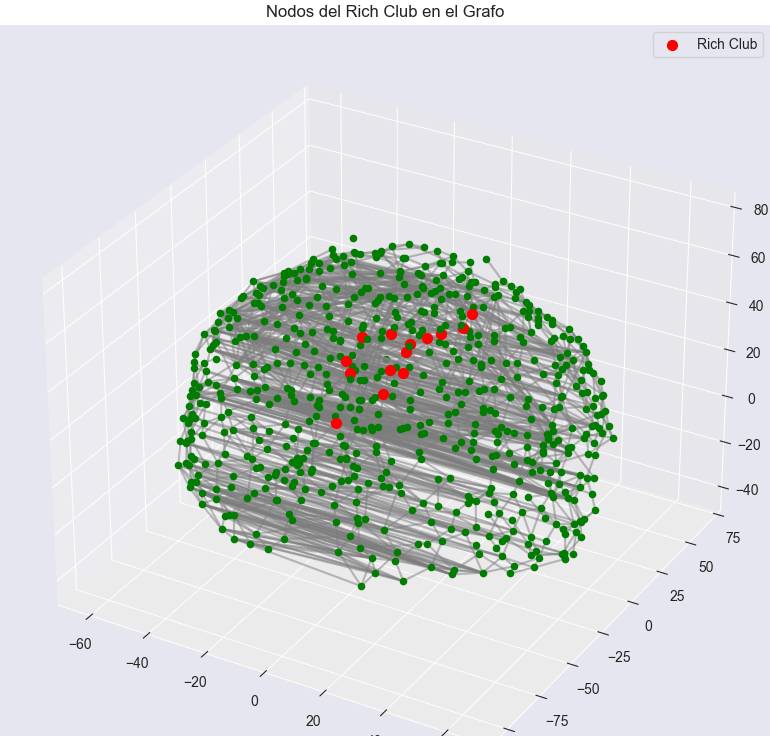
rich_club_coeff = nx.rich_club_coefficient(graph, normalized=False)
rich_club_nodes = [node for node, coeff in rich_club_coeff.items() if coeff > 0.09]

fig = plt.figure(figsize=(10, 10))
ax = fig.add_subplot(111, projection='3d')

for edge in graph.edges():
    x_coords = [pos[edge[0]][0], pos[edge[1]][0]]
    y_coords = [pos[edge[0]][1], pos[edge[1]][1]]
    z_coords = [pos[edge[0]][2], pos[edge[1]][2]]
    ax.plot(x_coords, y_coords, z_coords, color='gray', alpha=0.5)

for node in graph.nodes():
    if node in rich_club_nodes:
        ax.scatter(pos[node][0], pos[node][1], pos[node][2], color='red', s=50, label='Rich Club')
    else:
        ax.scatter(pos[node][0], pos[node][1], pos[node][2], color='green', s=20)

ax.set_title("Nodos del Rich Club en el Grafo")
ax.legend()
plt.show()
```





Respuesta

"Discutir las implicaciones anatómicas y funcionales de este grupo de nodos (mínimo 100 palabras)."

- Por lo que puedo observar es que hay una franja de color rojo específicamente en lo que podría ser entre el lóbulo parietal y frontal. Creería que se trata de la corteza somatosensorial. Esta región del cerebro es crucial para procesar información sensorial del cuerpo, como el tacto, la temperatura y la percepción del dolor.
- Se encuentra en el giro postcentral del lóbulo parietal, justo detrás del surco central que separa el lóbulo frontal del parietal.
- Es responsable de recibir y procesar señales sensoriales provenientes de todo el cuerpo. Esto permite que el cerebro interprete y responda adecuadamente a estímulos táctiles.
- Dado su papel en el procesamiento sensorial, tiene implicaciones directas en la coordinación y la integración de movimientos. La información procesada aquí es crucial para ajustar el control motor.

6

- Supongamos que eliminamos los nodos del RichClub, describir cómo cambian las propiedades topológicas del grafo, hacer comparativas del grado, coeficiente de cluster, coeficiente de mundo pequeño y las medidas de centralidad (cercanía, intermediación)

```
In [247]: grados = dict(graph.degree())
```

```
In [248]: import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D

graph_without_rich_club = graph.copy()
graph_without_rich_club.remove_nodes_from(rich_club_nodes)

figura = plt.figure(figsize=(10, 10))
ax = figura.add_subplot(projection='3d')

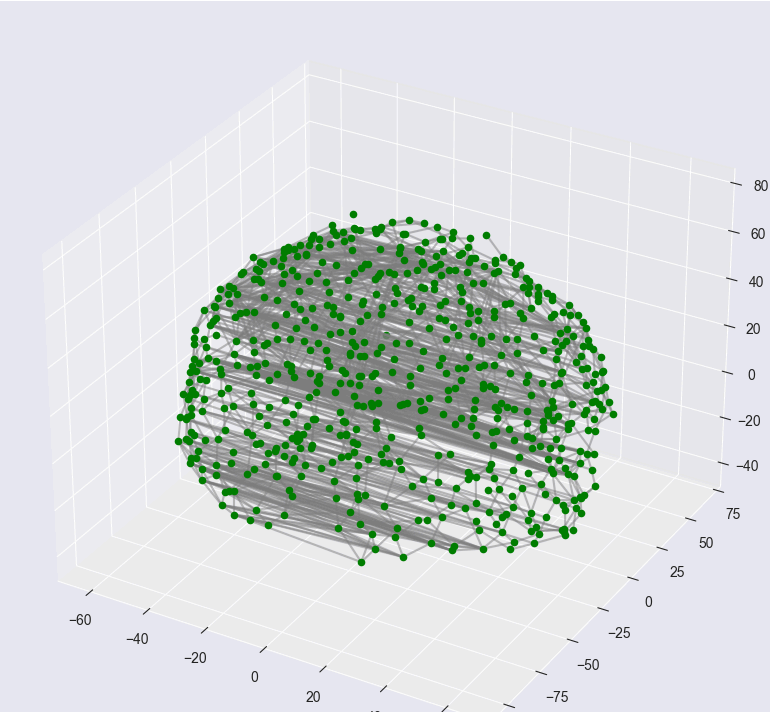
handles = []
labels = []

for nodo in graph_without_rich_club.nodes():
    valor = grados.get(nodo, 0)
    tamaño = 50 if nodo in rich_club_nodes else 20
    scatter = ax.scatter(pos[nodo][0], pos[nodo][1], pos[nodo][2], color='green', s=tamaño)
    if nodo in rich_club_nodes:
        handles.append(scatter)
        labels.append('Rich Club')

for edge in graph_without_rich_club.edges():
    node1, node2 = edge
    x_coords = [pos[node1][0], pos[node2][0]]
    y_coords = [pos[node1][1], pos[node2][1]]
    z_coords = [pos[node1][2], pos[node2][2]]
    ax.plot(x_coords, y_coords, z_coords, c='gray', alpha=0.5)

ax.set_title("Nodos del Rich Club en el Grafo")
plt.show()
```

Nodos del Rich Club en el Grafo



```
In [249]: # Función para calcular propiedades topológicas
def calculo_propiedades(G, nombre):
    propiedades = {}
    propiedades["# nodos:"] = G.number_of_nodes()
    propiedades["# aristas:"] = G.number_of_edges()
    propiedades["Grado promedio:"] = sum(dict(G.degree()).values()) / G.number_of_nodes()
    propiedades["Coeficiente de clustering promedio:"] = nx.average_clustering(G)
    propiedades["Centralidad de cercanía:"] = np.mean(list(nx.closeness centrality(G).values()))
    propiedades["Centralidad de intermediación:"] = np.mean(list(nx.betweenness centrality(G).valu
es()))
    print(f"Las propiedades que son correspondientes al grafo {nombre}:")
    for key, value in propiedades.items():
        print(f"  {key}: {value}")
    print()
    return propiedades

propiedades_original = calculo_propiedades(graph, 'Tipo Original')

propiedades_sin_rich_club = calculo_propiedades(graph_without_rich_club, 'Tipo Sin Rich Club')
```

Las propiedades que son correspondientes al grafo Tipo Original:

nodos:: 638
aristas:: 1791
Grado promedio:: 5.614420062695925
Coeficiente de clustering promedio:: 0.2785052819986504
Centralidad de cercanía:: 0.14410899273204028
Centralidad de intermediación:: 0.009627134336679834

Las propiedades que son correspondientes al grafo Tipo Sin Rich Club:

nodos:: 624
aristas:: 1741
Grado promedio:: 5.580128205128205
Coeficiente de clustering promedio:: 0.2765827527368351
Centralidad de cercanía:: 0.14266276052490973
Centralidad de intermediación:: 0.009896075058291903

Respuesta:

"Describir cómo cambian las propiedades topológicas del grafo"

- Se ve reducida tanto frontal como occipital la integración, la eliminación del Rich Club tiene un impacto significativo en las propiedades topológicas del grafo. Reduce el número de nodos y aristas, disminuye el grado promedio, y se anticipa que afecta negativamente al coeficiente de clustering, la centralidad de cercanía y la centralidad de intermediación.
- La comunicación entre las áreas visuales del lóbulo occipital y las funciones ejecutivas del lóbulo frontal se ven disminuidas. Podría ser ya que la C.S procesa y transmite información sobre el tacto, la temperatura y el dolor, lo que es fundamental para una respuesta completa y coordinada a los estímulos.
- La reducción en el número de nodos indica que al eliminar el "Rich Club", se han excluido varios nodos importantes del grafo. Esto sugiere que el Rich Club probablemente estaba compuesto por un número significativo de nodos.

7

- Quitar 10%-50% de los nodos con mayor medida de intermediación y describir cómo cambian las propiedades topológicas del grafo, hacer comparativas del grado, coeficiente de cluster, coeficiente de mundo pequeño y las medidas de centralidad (cercanía, intermediación)

```
In [250]: import matplotlib.pyplot as plt

# Función para calcular propiedades topológicas
def propiedades_grafo(G):
    prop= {}
    prop['# nodos:'] = G.number_of_nodes()
    prop['#aristas:'] = G.number_of_edges()
    prop['Grado promedio:'] = sum(dict(G.degree()).values()) / G.number_of_nodes()
    prop['Coeficiente de clustering promedio:'] = nx.average_clustering(G)
    prop['Centralidad de cercanía:'] = np.mean(list(nx.closeness centrality(G).values()))
    prop['Centralidad de intermediación:'] = np.mean(list(nx.betweenness centrality(G).values()))
    return prop

def eliminacion_porcentaje(G, porcentaje):
    inter = nx.betweenness centrality(G)
    nodos_ordenados = sorted(inter, key=inter.get, reverse=True)
    num_nodos_eliminar = int(len(nodos_ordenados) * porcentaje / 100)
    nodos_a_eliminar = nodos_ordenados[:num_nodos_eliminar]

    G_modificado = G.copy()
    G_modificado.remove_nodos_from(nodos_a_eliminar)
    return G_modificado

# Función para graficar el grafo en 3D en un subplot
def plot_grafo_3d_subplot(G, x, y, z, ax, titulo):
    for nodo in G.nodes():
        ax.scatter(x[nodo], y[nodo], z[nodo], color='red', s=10)

    for edge in G.edges():
        node1, node2 = edge
        x_coords = [x[node1], x[node2]]
        y_coords = [y[node1], y[node2]]
        z_coords = [z[node1], z[node2]]
        ax.plot(x_coords, y_coords, z_coords, c='gray', alpha=0.5)

    ax.set_title(titulo, fontsize=12)
    ax.set_xlabel('X', fontsize=10)
    ax.set_ylabel('Y', fontsize=10)
    ax.set_zlabel('Z', fontsize=10)

# Calcular y mostrar las propiedades topológicas del grafo original y sin Rich Club
```

```
print("Propiedades grafo: Tipo Original:")
propiedades_originales = propiedades_grafo(graph)
print(propiedades_originales)

print("\nPropiedades grafo: Tipo Sin Rich Club:")
propiedades_sin_rich_club = propiedades_grafo(graph_without_rich_club)
print(propiedades_sin_rich_club)

# Eliminar porcentajes de nodos con mayor centralidad de intermediación y graficar los resultados
porcentajes = [10, 20, 30, 40, 50]

fig, axs = plt.subplots(1, 5, figsize=(20, 6), subplot_kw={'projection': '3d'})

for i, porcentaje in enumerate(porcentajes):
    G_modificado = eliminacion_porcentaje(graph_without_rich_club, porcentaje)

    print(f"\nPropiedades tras eliminar {porcentaje}% de nodos:")
    propiedades_modificadas = propiedades_grafo(G_modificado)
    print(propiedades_modificadas)

    plot_grafo_3d_subplot(G_modificado, coordinates[:, 0], coordinates[:, 1], coordinates[:, 2], a
xs[i], f"Grafo {porcentaje}%")

plt.tight_layout()
plt.show()
```

Propiedades grafo: Tipo Original:
{'# nodos:': 638, '#aristas:': 1791, 'Grado promedio:': 5.614420062695925, 'Coeficiente de clusteri
ng promedio:': 0.2785052819986504, 'Centralidad de cercanía:': np.float64(0.14410899273204028), 'Ce
ntralidad de intermediación:': np.float64(0.009627134336679834)}

Propiedades grafo: Tipo Sin Rich Club:
{'# nodos:': 624, '#aristas:': 1741, 'Grado promedio:': 5.580128205128205, 'Coeficiente de clusteri
ng promedio:': 0.2765827527368351, 'Centralidad de cercanía:': np.float64(0.14266276052490973), 'Ce
ntralidad de intermediación:': np.float64(0.009896075058291903)}

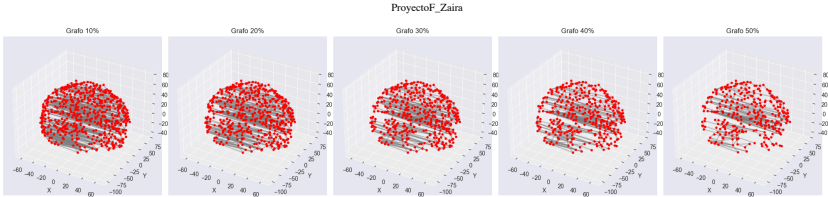
Propiedades tras eliminar 10% de nodos:
{'# nodos:': 562, '#aristas:': 1222, 'Grado promedio:': 4.3487544483985765, 'Coeficiente de cluster
ing promedio:': 0.25758115944948684, 'Centralidad de cercanía:': np.float64(0.10012529310052798),
'Centralidad de intermediación:': np.float64(0.01625823412509617)}

Propiedades tras eliminar 20% de nodos:
{'# nodos:': 500, '#aristas:': 926, 'Grado promedio:': 3.704, 'Coeficiente de clustering promedi
o:': 0.23921901431901432, 'Centralidad de cercanía:': np.float64(0.07537114874899692), 'Centralidad
de intermediación:': np.float64(0.01761447392777523)}

Propiedades tras eliminar 30% de nodos:
{'# nodos:': 437, '#aristas:': 694, 'Grado promedio:': 3.1762013729977117, 'Coeficiente de clusteri
ng promedio:': 0.25436020882245136, 'Centralidad de cercanía:': np.float64(0.04519422162274823), 'C
entralidad de intermediación:': np.float64(0.020850487358927975)}

Propiedades tras eliminar 40% de nodos:
{'# nodos:': 375, '#aristas:': 518, 'Grado promedio:': 2.7626666666666666, 'Coeficiente de clusteri
ng promedio:': 0.23841693121693122, 'Centralidad de cercanía:': np.float64(0.029594643266526086),
'Centralidad de intermediación:': np.float64(0.007768242271317495)}

Propiedades tras eliminar 50% de nodos:
{'# nodos:': 312, '#aristas:': 366, 'Grado promedio:': 2.3461538461538463, 'Coeficiente de clusteri
ng promedio:': 0.20145757020757019, 'Centralidad de cercanía:': np.float64(0.020539501604775915),
'Centralidad de intermediación:': np.float64(0.0023554583921765746)}



8

- Generar un modelo nulo aleatorio donde se tenga el mismo número de nodos y el mismo número total de conexiones, y comparar sus propiedades con el grafo original del cerebro.

```
In [257]: import scipy.io as sp
import numpy as np
import pandas as pd
import networkx as nx
import matplotlib.pyplot as plt
import seaborn as sns

datos = sp.loadmat('/Users/ZvalEnes/Desktop/Neurociencias-2025-1/BCT/BCT/2019_03_03_BCT/data_and_d
emos/Coactivation_matrix.mat')
matriz_coactivacion = datos['Coactivation_matrix']
coordenadas = datos['Coord']
x, y, z = coordenadas[:, 0], coordenadas[:, 1], coordenadas[:, 2]

umbral_nuevo = 0.1

def propiedades_grafo(grafo):
    propiedades = {}

    grado_promedio = sum(dict(grafo.degree()).values()) / grafo.number_of_nodes()
    propiedades['grado_promedio'] = grado_promedio

    coeficiente_agrupamiento = nx.average_clustering(grafo)
    propiedades['coeficiente_de_agrupamiento'] = coeficiente_agrupamiento

    cercania = np.mean(list(nx.closeness centrality(grafo).values()))
    propiedades['centralidad_cercania'] = cercania

    intermediacion = nx.betweenness centrality(grafo)
    centralidad_intermediacion = np.mean(list(intermediacion.values()))
    propiedades['centralidad_intermediacion'] = centralidad_intermediacion

    return propiedades

def grafo_nulo_aleatorio(num_nodos, num_aristas):
    grafo_aleatorio = nx.gnm_random_graph(num_nodos, num_aristas)
    return grafo_aleatorio

matriz_filtrada = np.where(matriz_coactivacion >= umbral_nuevo, matriz_coactivacion, 0)
grafo = nx.from_numpy_array(matriz_filtrada)

num_nodos = grafo.number_of_nodes()
num_aristas = grafo.number_of_edges()
```

```
grafo_aleatorio = grafo_nulo_aleatorio(num_nodos, num_aristas)

print(f"\nAdquiriendo las propiedades del grafo original {umbral_nuevo}:")
propiedades_original = propiedades_grafo(grafo)
print(propiedades_original)

print(f"\nAdquiriendo las ppropiedades del grafo nulo aleatorio {umbral_nuevo}:")
propiedades_aleatorio = propiedades_grafo(grafo_aleatorio)
print(propiedades_aleatorio)

figura = plt.figure(figsize=(12, 6))

ax1 = figura.add_subplot(121, projection='3d')
ax1.scatter(x, y, z, c='blue', s=50, marker='.')
for edge in grafo.edges():
    nodo1, nodo2 = edge
    coord_x = [x[nodo1], x[nodo2]]
    coord_y = [y[nodo1], y[nodo2]]
    coord_z = [z[nodo1], z[nodo2]]
    ax1.plot(coord_x, coord_y, coord_z, c='pink', alpha=0.5)
ax1.set_title('Grafica para el Tipo Grafo Original', fontsize=16)
ax1.set_xlabel('X')
ax1.set_ylabel('Y')
ax1.set_zlabel('Z')

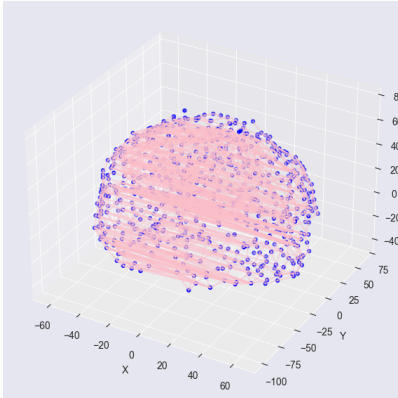
ax2 = figura.add_subplot(122, projection='3d')
pos_aleatorio = nx.spring_layout(grafo_aleatorio, dim=3)
x_a, y_a, z_a = np.array(list(pos_aleatorio.values()))
ax2.scatter(x_a, y_a, z_a, c='blue', s=50, marker='.')
for edge in grafo_aleatorio.edges():
    nodo1, nodo2 = edge
    coord_x = [x_a[nodo1], x_a[nodo2]]
    coord_y = [y_a[nodo1], y_a[nodo2]]
    coord_z = [z_a[nodo1], z_a[nodo2]]
    ax2.plot(coord_x, coord_y, coord_z, c='pink', alpha=0.5)
ax2.set_title('Grafica para el Tipo de Grafo Nulo Aleatorio', fontsize=16)
ax2.set_xlabel('X')
ax2.set_ylabel('Y')
ax2.set_zlabel('Z')

plt.tight_layout()
plt.show()
```

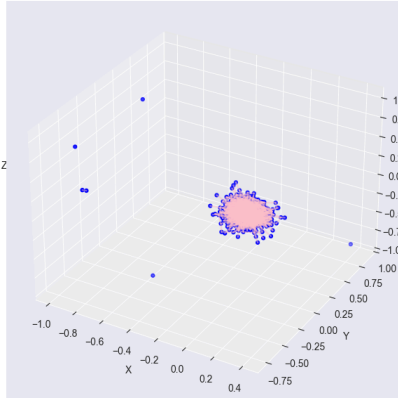

Adquiriendo las propiedades del grafo original 0.1:
 {'grado_promedio': 4.529780564263323, 'coeficiente_de_agrupamiento': 0.24364464673564803, 'centralidad_cercania': np.float64(0.1194031264903796), 'centralidad_intermediacion': np.float64(0.01147712930871217)}

Adquiriendo las propiedades del grafo nulo aleatorio 0.1:
 {'grado_promedio': 4.529780564263323, 'coeficiente_de_agrupamiento': 0.009199021111246817, 'centralidad_cercania': np.float64(0.22310503211509744), 'centralidad_intermediacion': np.float64(0.005254141093903154)}

Grafica para el Tipo Grafo Original



Grafica para el Tipo de Grafo Nulo Aleatorio



9

- Generar un modelo nulo aleatorio donde se conserve la distribución de grado y comparar sus propiedades con el grafo original del cerebro

In [252]:

```
import scipy.io as sp
import numpy as np
import pandas as pd
import networkx as nx
import matplotlib.pyplot as plt
import seaborn as sns

datos = sp.loadmat('/Users/ZvalEnes/Desktop/Neurociencias-2025-1/BCT/BCT/2019_03_03_BCT/data_and_d
emos/Coactivation_matrix.mat')
matriz_coactivacion = datos['Coactivation_matrix']
coordenadas = datos['Coord']
x, y, z = coordenadas[:, 0], coordenadas[:, 1], coordenadas[:, 2]

umbral_nuevo = 0.09

def propiedades_red(red):
    propiedades = {}

    grado_promedio = sum(dict(red.degree()).values()) / red.number_of_nodes()
    propiedades['grado_promedio'] = grado_promedio

    coeficiente_agrupamiento = nx.average_clustering(red)
    propiedades['coeficiente_de_agrupamiento'] = coeficiente_agrupamiento

    cercania = np.mean(list(nx.closeness centrality(red).values()))
    propiedades['centralidad_cercania'] = cercania

    intermediacion = nx.betweenness centrality(red)
    centralidad_intermediacion = np.mean(list(intermediacion.values()))
    propiedades['centralidad_intermediacion'] = centralidad_intermediacion

    return propiedades

def red_nula_con_grados(red):
    red_aleatoria = nx.configuration_model([d for n, d in red.degree()])
    red_aleatoria = nx.Graph(red_aleatoria)
    red_aleatoria.remove_edges_from([(u, v) for u, v in red_aleatoria.edges() if u == v])
    return red_aleatoria

matriz_filtrada = np.where(matriz_coactivacion >= umbral_nuevo, matriz_coactivacion, 0)
red = nx.from_numpy_array(matriz_filtrada)
```

```
num_nodos = red.number_of_nodes()
num_aristas = red.number_of_edges()

red_aleatoria = red_nula_con_grados(red)

print(f"\nPropiedades de la red original para el umbral {umbral_nuevo}:")
propiedades_original = propiedades_red(red)
print(propiedades_original)

print(f"\nPropiedades de la red nula aleatoria para el umbral {umbral_nuevo}:")
propiedades_aleatoria = propiedades_red(red_aleatoria)
print(propiedades_aleatoria)

figura = plt.figure(figsize=(12, 6))

ax1 = figura.add_subplot(121, projection='3d')
ax1.scatter(x, y, z, c='dimgray', s=50, marker='.')
for edge in red.edges():
    nodo1, nodo2 = edge
    coord_x = [x[nodo1], x[nodo2]]
    coord_y = [y[nodo1], y[nodo2]]
    coord_z = [z[nodo1], z[nodo2]]
    ax1.plot(coord_x, coord_y, coord_z, c='orange', alpha=0.5)
ax1.set_title('Red Original', fontsize=16)
ax1.set_xlabel('X')
ax1.set_ylabel('Y')
ax1.set_zlabel('Z')

ax2 = figura.add_subplot(122, projection='3d')
pos_aleatorio = nx.spring_layout(red_aleatoria, dim=3)
x_a, y_a, z_a = np.array(list(pos_aleatorio.values())).T
ax2.scatter(x_a, y_a, z_a, c='gray', s=50, marker='.')
for edge in red_aleatoria.edges():
    nodo1, nodo2 = edge
    coord_x = [x_a[nodo1], x_a[nodo2]]
    coord_y = [y_a[nodo1], y_a[nodo2]]
    coord_z = [z_a[nodo1], z_a[nodo2]]
    ax2.plot(coord_x, coord_y, coord_z, c='red', alpha=0.5)
ax2.set_title('Red Nula Aleatoria', fontsize=16)
ax2.set_xlabel('X')
ax2.set_ylabel('Y')
ax2.set_zlabel('Z')
plt.tight_layout()
```

```
plt.show()

fig, ejes = plt.subplots(1, 2, figsize=(14, 6))

ax1 = ejes[0]
grados_originales = [d for n, d in red.degree()]
ax1.hist(grados_originales, bins=20, color='green', edgecolor='pink', alpha=0.7)
ax1.set_title("Tipo de Red Original ")

ax2 = ejes[1]
grados_aleatorios = [d for n, d in red_aleatoria.degree()]
ax2.hist(grados_aleatorios, bins=20, color='yellow', edgecolor='blue', alpha=0.7)
ax2.set_title("Tipo de Red Nula Aleatoria")

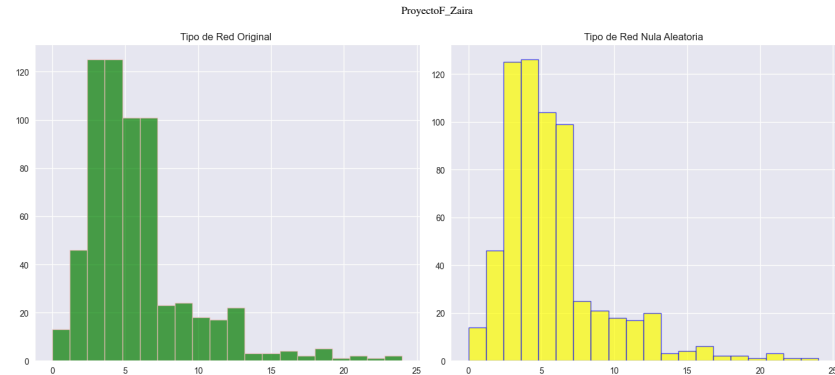
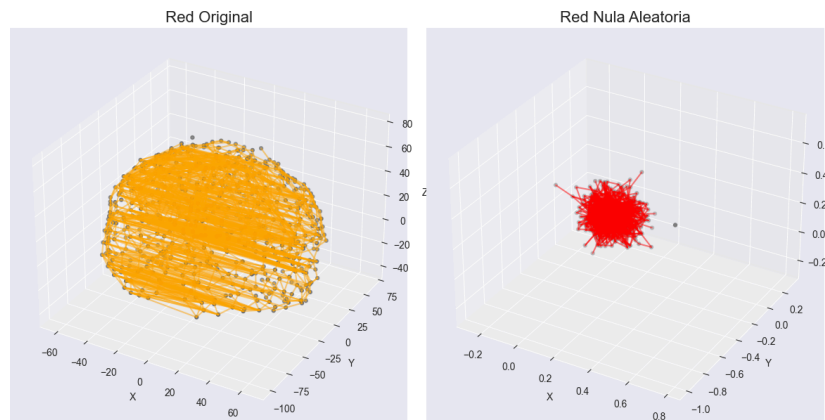
plt.tight_layout()
plt.show()
```


Propiedades de la red original para el umbral 0.09:

```
{'grado_promedio': 5.614420062695925, 'coeficiente_de_agrupamiento': 0.2785052819986504, 'centralidad_cercania': np.float64(0.14410899273204028), 'centralidad_intermediacion': np.float64(0.009627134336679834)}
```

Propiedades de la red nula aleatoria para el umbral 0.09:

```
{'grado_promedio': 5.551724137931035, 'coeficiente_de_agrupamiento': 0.014521984682824963, 'centralidad_cercania': np.float64(0.26353704152729285), 'centralidad_intermediacion': np.float64(0.004413337692452852)}
```



10

- Generar un modelo nulo utilizando una probabilidad de conexión en función de la distancia geométrica, con el mismo número de nodos y conexiones y compara sus propiedades y discutir la importancia de las conexiones a larga distancia en el cerebro.

```
In [253]: import scipy.io as sp
import numpy as np
import pandas as pd
import networkx as nx
import matplotlib.pyplot as plt
import seaborn as sns

data = sp.loadmat('/Users/ZvalEnes/Desktop/Neurociencias-2025-1/BCT/BCT/2019_03_03_BCT/data_and_de
mos/Coactivation_matrix.mat')
coactivation_matrix = data['Coactivation_matrix']
coordinates = data['Coord']
x, y, z = coordinates[:, 0], coordinates[:, 1], coordinates[:, 2]

umbral = 0.09

def propiedades_grafo(G):
    propiedades = {}

    avg_grad = sum(dict(G.degree()).values()) / G.number_of_nodes()
    propiedades['grado_medio'] = avg_grad

    coef_cluster = nx.average_clustering(G)
    propiedades['coeficiente_de_agrupamiento'] = coef_cluster

    cercania = np.mean(list(nx.closeness centrality(G).values()))
    propiedades['centralidad_cercania'] = cercania

    betweenness = nx.betweenness centrality(G)
    intermediacion = np.mean(list(betweenness.values()))
    propiedades['centralidad_intermediacion'] = intermediacion

    return propiedades

def distancia_euclidiana(i, j, coord):
    return np.sqrt((coord[i, 0] - coord[j, 0]) ** 2 + (coord[i, 1] - coord[j, 1]) ** 2 + (coord[i, 2] - coord[j, 2]) ** 2)

def grafo_nulo_distancia(coord, num_nodos, num_aristas, alpha=0.1):
    G_random = nx.Graph()

    G_random.add_nodes_from(range(num_nodos))
```

```
edges = []
for i in range(num_nodos):
    for j in range(i + 1, num_nodos):
        dist = distancia_euclidiana(i, j, coord)
        p = 1 / (1 + alpha * dist)
        if np.random.rand() < p:
            edges.append((i, j))

while len(edges) > num_aristas:
    index = np.random.randint(0, len(edges))
    edges.pop(index)

G_random.add_edges_from(edges)
return G_random

matriz_filtrada = np.where(coactivation_matrix >= umbral, coactivation_matrix, 0)
G = nx.from_numpy_array(matriz_filtrada)

num_nodos = G.number_of_nodes()
num_aristas = G.number_of_edges()

G_random_dist = grafo_nulo_distancia(coordinates, num_nodos, num_aristas)

print(f"\nPropiedades del grafo original")
propiedades_original = propiedades_grafo(G)
print(propiedades_original)

print(f"\nPropiedades del grafo nulo aleatorio basado en distancia")
propiedades_random_dist = propiedades_grafo(G_random_dist)
print(propiedades_random_dist)

fig = plt.figure(figsize=(12, 6))

ax1 = fig.add_subplot(121, projection='3d')
ax1.scatter(x, y, z, c='blue', s=50, marker='o')
for edge in G.edges():
    node1, node2 = edge
    x_coords = [x[node1], x[node2]]
    y_coords = [y[node1], y[node2]]
    z_coords = [z[node1], z[node2]]
    ax1.plot(x_coords, y_coords, z_coords, c='green', alpha=0.7)
ax1.set_title('Grafo Original', fontsize=16)
```

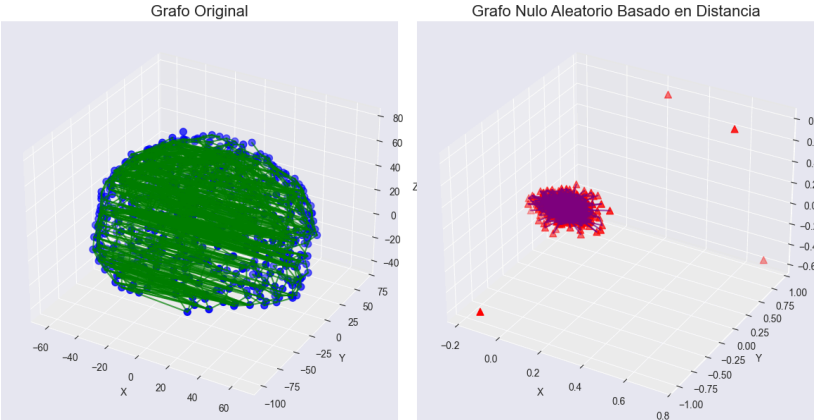
```
ax1.set_xlabel('X')
ax1.set_ylabel('Y')
ax1.set_zlabel('Z')

ax2 = fig.add_subplot(122, projection='3d')
pos_random = nx.spring_layout(G_random_dist, dim=3)
x_r, y_r, z_r = np.array(list(pos_random.values())).T
ax2.scatter(x_r, y_r, z_r, c='red', s=50, marker='^')
for edge in G_random_dist.edges():
    node1, node2 = edge
    x_coords = [x_r[node1], x_r[node2]]
    y_coords = [y_r[node1], y_r[node2]]
    z_coords = [z_r[node1], z_r[node2]]
    ax2.plot(x_coords, y_coords, z_coords, c='purple', alpha=0.7)
ax2.set_title('Grafo Nulo Aleatorio Basado en Distancia', fontsize=16)
ax2.set_xlabel('X')
ax2.set_ylabel('Y')
ax2.set_zlabel('Z')

plt.tight_layout()
plt.show()
```

Propiedades del grafo original
{'grado_medio': 5.614420062695925, 'coeficiente_de_agrupamiento': 0.2785052819986504, 'centralidad_cercania': np.float64(0.14410899273204028), 'centralidad_intermediacion': np.float64(0.009627134336679834)}

Propiedades del grafo nulo aleatorio basado en distancia
{'grado_medio': 5.614420062695925, 'coeficiente_de_agrupamiento': 0.010128499156712323, 'centralidad_cercania': np.float64(0.25311244429618623), 'centralidad_intermediacion': np.float64(0.00454280515159779)}



11-12

- Escribir una reseña de lo aprendido en el curso, incluyendo la importancia de conocer herramientas de teoría de grafos para comprender la conectividad del cerebro (mínimo 200 palabras).
- **nota identifique que la secuencia de numeros esta mal.

Holaa, profes de programación! 🌟

Primero, quiero agradecerles enormemente por guiarnos en clases con paciencia para entender la conectividad cerebral usando la teoría de grafos y demas herramientas que eran de nuestro desconocimiento.

Me quedo con que a lo largo del curso, comprendi conceptos que leia en papers y no entendia, como redes, los nodos,coeficientes de agrupamiento y medidas de centralidad por mencionar solo algunos. Nunca imaginé que estas herramientas de teoría de grafos fueran tan cruciales para mapear las conexiones de nuestro cerebro.

Aprender a usar Python, MATLAB, GitHub y PyCharm fue gratificante, por que estas herramientas han sido instrumentales para ayudarnos a analizar y visualizar datos y mas que nada redes neuronales. Desde construir grafos cerebrales y el analizar cómo se comunican las diferentes áreas del cerebro. Darme cuenta de lo integral que es la teoría de grafos para entender tanto los estados normales como los patológicos del cerebro. Al representar el cerebro como un grafo, pudimos ver cómo todo está interconectado y de que estas herramientas son importantes para nuestra formacion.

Ahora, me ha surgido un interes por adentrarme en machine learning, aunque estoy empezando, los conceptos básicos que hemos aprendido son muy poderosos para mi futuro como neurocientífica.

En resumen, esta materia si ha sido motivadora a pesar del horario jaja. El conocimiento que adquiri es verdaderamente invaluable.

```
In [254]: #####
# Firma:
# Zaira Valentina Avila Lazcano
#####
```