

```
In [ ]: %load_ext autoreload
```

The autoreload extension is already loaded. To reload it, use:
%reload_ext autoreload

Examen

Gauss-Jacobi y Gauss-Seidel

```
In [ ]: %autoreload 2
from src import eliminacion_gaussiana, matriz_aumentada
A = [[1, 1], [-2, 5]]
b = [7, 0]
eliminacion_gaussiana(matriz_aumentada(A, b))
```

```
[07-19 16:56:25][INFO]
[[ 1.  1.  7.]
 [ 0.  7. 14.]]
```

```
Out[ ]: array([5., 2.])
```

```
In [ ]: %autoreload 2
from src import gauss_jacobi
A = [[1, 1], [-2, 5]]
b = [7, 0]
n = len(A)

gauss_jacobi(A=A, b=b, x0=[0]*n, tol=1e-5, max_iter=1000)
```

```
[07-19 16:56:25][INFO] i= 0 x: [0. 0.]
[07-19 16:56:25][INFO] i= 1 x: [[7. 0.]]
[07-19 16:56:25][INFO] i= 2 x: [[7. 2.8]]
[07-19 16:56:25][INFO] i= 3 x: [[4.2 2.8]]
[07-19 16:56:25][INFO] i= 4 x: [[4.2 1.68]]
[07-19 16:56:25][INFO] i= 5 x: [[5.32 1.68]]
[07-19 16:56:25][INFO] i= 6 x: [[5.32 2.128]]
[07-19 16:56:25][INFO] i= 7 x: [[4.872 2.128]]
[07-19 16:56:25][INFO] i= 8 x: [[4.872 1.9488]]
[07-19 16:56:25][INFO] i= 9 x: [[5.0512 1.9488]]
[07-19 16:56:25][INFO] i= 10 x: [[5.0512 2.02048]]
[07-19 16:56:25][INFO] i= 11 x: [[4.97952 2.02048]]
[07-19 16:56:25][INFO] i= 12 x: [[4.97952 1.991808]]
[07-19 16:56:25][INFO] i= 13 x: [[5.008192 1.991808]]
[07-19 16:56:25][INFO] i= 14 x: [[5.008192 2.0032768]]
[07-19 16:56:25][INFO] i= 15 x: [[4.9967232 2.0032768]]
[07-19 16:56:25][INFO] i= 16 x: [[4.9967232 1.99868928]]
[07-19 16:56:25][INFO] i= 17 x: [[5.00131072 1.99868928]]
[07-19 16:56:25][INFO] i= 18 x: [[5.00131072 2.00052429]]
[07-19 16:56:25][INFO] i= 19 x: [[4.99947571 2.00052429]]
[07-19 16:56:25][INFO] i= 20 x: [[4.99947571 1.99979028]]
[07-19 16:56:25][INFO] i= 21 x: [[5.00020972 1.99979028]]
[07-19 16:56:25][INFO] i= 22 x: [[5.00020972 2.00008389]]
[07-19 16:56:25][INFO] i= 23 x: [[4.99991611 2.00008389]]
[07-19 16:56:25][INFO] i= 24 x: [[4.99991611 1.99996645]]
[07-19 16:56:25][INFO] i= 25 x: [[5.00003355 1.99996645]]
[07-19 16:56:25][INFO] i= 26 x: [[5.00003355 2.00001342]]
[07-19 16:56:25][INFO] i= 27 x: [[4.99998658 2.00001342]]
[07-19 16:56:25][INFO] i= 28 x: [[4.99998658 1.99999463]]
[07-19 16:56:25][INFO] i= 29 x: [[5.00000537 1.99999463]]
```

```
Out[ ]: array([[5.00000537],
 [2.00000215]])
```



Grafique

```
In [ ]:
```

Use otra estimación inicial

\$x_0 = (1, 1)\$

Grafique

In []:

Gauss-Seidel

In []:

```
%autoreload 2
from src import gauss_seidel
# -----
A = [[1, 1], [-2, 5]]
b = [7, 0]
n = len(b)
gauss_seidel(A=A, b=b, x0=[0]*n, tol=1e-5, max_iter=1000)
```

```
[07-19 16:56:25][INFO] i= 0 x: [0. 0.]
[07-19 16:56:25][INFO] i= 1 x: [[7. 2.8]]
[07-19 16:56:25][INFO] i= 2 x: [[4.2 1.68]]
[07-19 16:56:25][INFO] i= 3 x: [[5.32 2.128]]
[07-19 16:56:25][INFO] i= 4 x: [[4.872 1.9488]]
[07-19 16:56:25][INFO] i= 5 x: [[5.0512 2.02048]]
[07-19 16:56:25][INFO] i= 6 x: [[4.97952 1.991808]]
[07-19 16:56:25][INFO] i= 7 x: [[5.008192 2.0032768]]
[07-19 16:56:25][INFO] i= 8 x: [[4.9967232 1.99868928]]
[07-19 16:56:25][INFO] i= 9 x: [[5.00131072 2.00052429]]
[07-19 16:56:25][INFO] i= 10 x: [[4.99947571 1.99979028]]
[07-19 16:56:25][INFO] i= 11 x: [[5.00020972 2.00008389]]
[07-19 16:56:25][INFO] i= 12 x: [[4.99991611 1.99996645]]
[07-19 16:56:25][INFO] i= 13 x: [[5.00003355 2.00001342]]
[07-19 16:56:25][INFO] i= 14 x: [[4.99998658 1.99999463]]
[07-19 16:56:25][INFO] i= 15 x: [[5.00000537 2.00000215]]
```

Out[]: array([[4.99999785],
[1.99999914]])

Grafique el método de Gauss-Seidel

In []:

Resuelva

$$x_1 + x_2 = 6$$

$$-2x_1 + x_2 = 0$$

In []:

```
# -*- coding: utf-8 -*-
"""
Python 3
19 / 07 / 2024
@author: z_tjona
"""

# ----- logging -----
import logging
from sys import stdout
from datetime import datetime

logging.basicConfig(
    level=logging.INFO,
    format="[%asctime)s][%(levelname)s] %(message)s",
    stream=stdout,
    datefmt="%m-%d %H:%M:%S",
)
logging.info(datetime.now())

import numpy as np
import matplotlib.pyplot as plt

# Definir los métodos iterativos
def gauss_jacobi(
    *, A: np.array, b: np.array, x0: np.array, tol: float, max_iter: int
) -> tuple:
    n = A.shape[0]
    x = x0.copy()
    trajectory = [x.copy()]

    for k in range(max_iter):
        x_new = np.zeros(n)
        for i in range(n):
            suma = np.sum(A[i, :i] * x[:i]) + np.sum(A[i, i+1:] * x[i+1:])
            x_new[i] = (b[i] - suma) / A[i, i]
```

```

        if np.linalg.norm(x_new - x, ord=np.inf) < tol:
            return x_new, trajectory

        x = x_new
        trajectory.append(x.copy())
        logging.info(f"Iteración {k}: {x}")

    return x, trajectory

def gauss_seidel(
    *, A: np.array, b: np.array, x0: np.array, tol: float, max_iter: int
) -> tuple:
    n = A.shape[0]
    x = x0.copy()
    trajectory = [x.copy()]

    for k in range(max_iter):
        x_new = x.copy()
        for i in range(n):
            suma = np.sum(A[i, :i] * x_new[:i]) + np.sum(A[i, i+1:] * x[i+1:])
            x_new[i] = (b[i] - suma) / A[i, i]

        if np.linalg.norm(x_new - x, ord=np.inf) < tol:
            return x_new, trajectory

        x = x_new
        trajectory.append(x.copy())
        logging.info(f"Iteración {k}: {x}")

    return x, trajectory

# Función para graficar la trayectoria
def plot_trajectory(trajectory, solution, method):
    trajectory = np.array(trajectory)
    plt.plot(trajectory[:, 0], trajectory[:, 1], marker='o', label=f'{method} trayectoria')
    plt.plot(solution[0], solution[1], 'ro', label='solución')
    plt.xlabel('$x_1$')
    plt.ylabel('$x_2$')
    plt.legend()
    plt.grid()
    plt.title(f'Trayectoria del método {method}')
    plt.show()

# Definir el sistema de ecuaciones
A = np.array([[1, 1], [-2, 1]])
b = np.array([6, 0])
x0 = np.array([0, 0])

# Gauss-Jacobi
solution_jacobi, trajectory_jacobi = gauss_jacobi(A=A, b=b, x0=x0, tol=1e-5, max_iter=1000)
print(f'Solución Gauss-Jacobi: {solution_jacobi}')
plot_trajectory(trajectory_jacobi, solution_jacobi, 'Gauss-Jacobi')

# Gauss-Seidel
solution_seidel, trajectory_seidel = gauss_seidel(A=A, b=b, x0=x0, tol=1e-5, max_iter=1000)
print(f'Solución Gauss-Seidel: {solution_seidel}')
plot_trajectory(trajectory_seidel, solution_seidel, 'Gauss-Seidel')

```

```

[07-19 22:58:24][INFO] 2024-07-19 22:58:24.784794
[07-19 22:58:34][INFO] Iteración 0: [6. 0.]
[07-19 22:58:34][INFO] Iteración 1: [ 6. 12.]
[07-19 22:58:34][INFO] Iteración 2: [-6. 12.]
[07-19 22:58:34][INFO] Iteración 3: [ -6. -12.]
[07-19 22:58:34][INFO] Iteración 4: [ 18. -12.]
[07-19 22:58:34][INFO] Iteración 5: [18. 36.]
[07-19 22:58:34][INFO] Iteración 6: [-30. 36.]
[07-19 22:58:34][INFO] Iteración 7: [-30. -60.]
[07-19 22:58:34][INFO] Iteración 8: [ 66. -60.]
[07-19 22:58:34][INFO] Iteración 9: [ 66. 132.]
[07-19 22:58:34][INFO] Iteración 10: [-126. 132.]
[07-19 22:58:34][INFO] Iteración 11: [-126. -252.]
[07-19 22:58:34][INFO] Iteración 12: [ 258. -252.]
[07-19 22:58:34][INFO] Iteración 13: [258. 516.]
[07-19 22:58:34][INFO] Iteración 14: [-510. 516.]
[07-19 22:58:34][INFO] Iteración 15: [ -510. -1020.]
[07-19 22:58:34][INFO] Iteración 16: [ 1026. -1020.]
[07-19 22:58:34][INFO] Iteración 17: [1026. 2052.]
[07-19 22:58:34][INFO] Iteración 18: [-2046. 2052.]
[07-19 22:58:34][INFO] Iteración 19: [-2046. -4092.]
[07-19 22:58:34][INFO] Iteración 20: [ 4098. -4092.]
[07-19 22:58:34][INFO] Iteración 21: [4098. 8196.]
[07-19 22:58:34][INFO] Iteración 22: [-8190. 8196.]
[07-19 22:58:34][INFO] Iteración 23: [ -8190. -16380.]

```

[07-19 22:58:34][INFO] Iteración 24: [16386. -16380.]
[07-19 22:58:34][INFO] Iteración 25: [16386. 32772.]
[07-19 22:58:34][INFO] Iteración 26: [-32766. 32772.]
[07-19 22:58:34][INFO] Iteración 27: [-32766. -65532.]
[07-19 22:58:34][INFO] Iteración 28: [65538. -65532.]
[07-19 22:58:34][INFO] Iteración 29: [65538. 131076.]
[07-19 22:58:34][INFO] Iteración 30: [-131070. 131076.]
[07-19 22:58:34][INFO] Iteración 31: [-131070. -262140.]
[07-19 22:58:34][INFO] Iteración 32: [262146. -262140.]
[07-19 22:58:34][INFO] Iteración 33: [262146. 524292.]
[07-19 22:58:34][INFO] Iteración 34: [-524286. 524292.]
[07-19 22:58:34][INFO] Iteración 35: [-524286. -1048572.]
[07-19 22:58:34][INFO] Iteración 36: [1048578. -1048572.]
[07-19 22:58:34][INFO] Iteración 37: [1048578. 2097156.]
[07-19 22:58:34][INFO] Iteración 38: [-2097150. 2097156.]
[07-19 22:58:34][INFO] Iteración 39: [-2097150. -4194300.]
[07-19 22:58:34][INFO] Iteración 40: [4194306. -4194300.]
[07-19 22:58:34][INFO] Iteración 41: [4194306. 8388612.]
[07-19 22:58:34][INFO] Iteración 42: [-8388606. 8388612.]
[07-19 22:58:34][INFO] Iteración 43: [-8388606. -16777212.]
[07-19 22:58:34][INFO] Iteración 44: [16777218. -16777212.]
[07-19 22:58:34][INFO] Iteración 45: [16777218. 33554436.]
[07-19 22:58:34][INFO] Iteración 46: [-33554430. 33554436.]
[07-19 22:58:34][INFO] Iteración 47: [-33554430. -67108860.]
[07-19 22:58:34][INFO] Iteración 48: [67108866. -67108860.]
[07-19 22:58:34][INFO] Iteración 49: [6.71088660e+07 1.34217732e+08]
[07-19 22:58:34][INFO] Iteración 50: [-1.34217726e+08 1.34217732e+08]
[07-19 22:58:34][INFO] Iteración 51: [-1.34217726e+08 -2.68435452e+08]
[07-19 22:58:34][INFO] Iteración 52: [2.68435458e+08 -2.68435452e+08]
[07-19 22:58:34][INFO] Iteración 53: [2.68435458e+08 5.36870916e+08]
[07-19 22:58:34][INFO] Iteración 54: [-5.36870910e+08 5.36870916e+08]
[07-19 22:58:34][INFO] Iteración 55: [-5.36870910e+08 -1.07374182e+09]
[07-19 22:58:34][INFO] Iteración 56: [1.07374183e+09 -1.07374182e+09]
[07-19 22:58:34][INFO] Iteración 57: [1.07374183e+09 2.14748365e+09]
[07-19 22:58:34][INFO] Iteración 58: [-2.14748365e+09 2.14748365e+09]
[07-19 22:58:34][INFO] Iteración 59: [-2.14748365e+09 -4.29496729e+09]
[07-19 22:58:34][INFO] Iteración 60: [4.29496730e+09 -4.29496729e+09]
[07-19 22:58:34][INFO] Iteración 61: [4.2949673e+09 8.5899346e+09]
[07-19 22:58:34][INFO] Iteración 62: [-8.58993459e+09 8.58993460e+09]
[07-19 22:58:34][INFO] Iteración 63: [-8.58993459e+09 -1.71798692e+10]
[07-19 22:58:34][INFO] Iteración 64: [1.71798692e+10 -1.71798692e+10]
[07-19 22:58:34][INFO] Iteración 65: [1.71798692e+10 3.43597384e+10]
[07-19 22:58:34][INFO] Iteración 66: [-3.43597384e+10 3.43597384e+10]
[07-19 22:58:34][INFO] Iteración 67: [-3.43597384e+10 -6.87194767e+10]
[07-19 22:58:34][INFO] Iteración 68: [6.87194767e+10 -6.87194767e+10]
[07-19 22:58:34][INFO] Iteración 69: [6.87194767e+10 1.37438953e+11]
[07-19 22:58:34][INFO] Iteración 70: [-1.37438953e+11 1.37438953e+11]
[07-19 22:58:34][INFO] Iteración 71: [-1.37438953e+11 -2.74877907e+11]
[07-19 22:58:34][INFO] Iteración 72: [2.74877907e+11 -2.74877907e+11]
[07-19 22:58:34][INFO] Iteración 73: [2.74877907e+11 5.49755814e+11]
[07-19 22:58:34][INFO] Iteración 74: [-5.49755814e+11 5.49755814e+11]
[07-19 22:58:34][INFO] Iteración 75: [-5.49755814e+11 -1.09951163e+12]
[07-19 22:58:34][INFO] Iteración 76: [1.09951163e+12 -1.09951163e+12]
[07-19 22:58:34][INFO] Iteración 77: [1.09951163e+12 2.19902326e+12]
[07-19 22:58:34][INFO] Iteración 78: [-2.19902326e+12 2.19902326e+12]
[07-19 22:58:34][INFO] Iteración 79: [-2.19902326e+12 -4.39804651e+12]
[07-19 22:58:35][INFO] Iteración 80: [4.39804651e+12 -4.39804651e+12]
[07-19 22:58:35][INFO] Iteración 81: [4.39804651e+12 8.79609302e+12]
[07-19 22:58:35][INFO] Iteración 82: [-8.79609302e+12 8.79609302e+12]
[07-19 22:58:35][INFO] Iteración 83: [-8.79609302e+12 -1.75921860e+13]
[07-19 22:58:35][INFO] Iteración 84: [1.7592186e+13 -1.7592186e+13]
[07-19 22:58:35][INFO] Iteración 85: [1.75921860e+13 3.51843721e+13]
[07-19 22:58:35][INFO] Iteración 86: [-3.51843721e+13 3.51843721e+13]
[07-19 22:58:35][INFO] Iteración 87: [-3.51843721e+13 -7.03687442e+13]
[07-19 22:58:35][INFO] Iteración 88: [7.03687442e+13 -7.03687442e+13]
[07-19 22:58:35][INFO] Iteración 89: [7.03687442e+13 1.40737488e+14]
[07-19 22:58:35][INFO] Iteración 90: [-1.40737488e+14 1.40737488e+14]
[07-19 22:58:35][INFO] Iteración 91: [-1.40737488e+14 -2.81474977e+14]
[07-19 22:58:35][INFO] Iteración 92: [2.81474977e+14 -2.81474977e+14]
[07-19 22:58:35][INFO] Iteración 93: [2.81474977e+14 5.62949953e+14]
[07-19 22:58:35][INFO] Iteración 94: [-5.62949953e+14 5.62949953e+14]
[07-19 22:58:35][INFO] Iteración 95: [-5.62949953e+14 -1.12589991e+15]
[07-19 22:58:35][INFO] Iteración 96: [1.12589991e+15 -1.12589991e+15]
[07-19 22:58:35][INFO] Iteración 97: [1.12589991e+15 2.25179981e+15]
[07-19 22:58:35][INFO] Iteración 98: [-2.25179981e+15 2.25179981e+15]
[07-19 22:58:35][INFO] Iteración 99: [-2.25179981e+15 -4.50359963e+15]
[07-19 22:58:35][INFO] Iteración 100: [4.50359963e+15 -4.50359963e+15]
[07-19 22:58:35][INFO] Iteración 101: [4.50359963e+15 9.00719925e+15]
[07-19 22:58:35][INFO] Iteración 102: [-9.00719925e+15 9.00719925e+15]
[07-19 22:58:35][INFO] Iteración 103: [-9.00719925e+15 -1.80143985e+16]
[07-19 22:58:35][INFO] Iteración 104: [1.80143985e+16 -1.80143985e+16]
[07-19 22:58:35][INFO] Iteración 105: [1.80143985e+16 3.60287970e+16]
[07-19 22:58:35][INFO] Iteración 106: [-3.6028797e+16 3.6028797e+16]

[07-19 22:58:35][INFO] Iteración 107: [-3.6028797e+16 -7.2057594e+16]
[07-19 22:58:35][INFO] Iteración 108: [7.2057594e+16 -7.2057594e+16]
[07-19 22:58:35][INFO] Iteración 109: [7.20575940e+16 1.44115188e+17]
[07-19 22:58:35][INFO] Iteración 110: [-1.44115188e+17 1.44115188e+17]
[07-19 22:58:35][INFO] Iteración 111: [-1.44115188e+17 -2.88230376e+17]
[07-19 22:58:35][INFO] Iteración 112: [2.88230376e+17 -2.88230376e+17]
[07-19 22:58:35][INFO] Iteración 113: [2.88230376e+17 5.76460752e+17]
[07-19 22:58:35][INFO] Iteración 114: [-5.76460752e+17 5.76460752e+17]
[07-19 22:58:35][INFO] Iteración 115: [-5.76460752e+17 -1.15292150e+18]
[07-19 22:58:35][INFO] Iteración 116: [1.1529215e+18 -1.1529215e+18]
[07-19 22:58:35][INFO] Iteración 117: [1.15292150e+18 2.30584301e+18]
[07-19 22:58:35][INFO] Iteración 118: [-2.30584301e+18 2.30584301e+18]
[07-19 22:58:35][INFO] Iteración 119: [-2.30584301e+18 -4.61168602e+18]
[07-19 22:58:35][INFO] Iteración 120: [4.61168602e+18 -4.61168602e+18]
[07-19 22:58:35][INFO] Iteración 121: [4.61168602e+18 9.22337204e+18]
[07-19 22:58:35][INFO] Iteración 122: [-9.22337204e+18 9.22337204e+18]
[07-19 22:58:35][INFO] Iteración 123: [-9.22337204e+18 -1.84467441e+19]
[07-19 22:58:35][INFO] Iteración 124: [1.84467441e+19 -1.84467441e+19]
[07-19 22:58:35][INFO] Iteración 125: [1.84467441e+19 3.68934881e+19]
[07-19 22:58:35][INFO] Iteración 126: [-3.68934881e+19 3.68934881e+19]
[07-19 22:58:35][INFO] Iteración 127: [-3.68934881e+19 -7.37869763e+19]
[07-19 22:58:35][INFO] Iteración 128: [7.37869763e+19 -7.37869763e+19]
[07-19 22:58:35][INFO] Iteración 129: [7.37869763e+19 1.47573953e+20]
[07-19 22:58:35][INFO] Iteración 130: [-1.47573953e+20 1.47573953e+20]
[07-19 22:58:35][INFO] Iteración 131: [-1.47573953e+20 -2.95147905e+20]
[07-19 22:58:35][INFO] Iteración 132: [2.95147905e+20 -2.95147905e+20]
[07-19 22:58:35][INFO] Iteración 133: [2.95147905e+20 5.90295810e+20]
[07-19 22:58:35][INFO] Iteración 134: [-5.9029581e+20 5.9029581e+20]
[07-19 22:58:35][INFO] Iteración 135: [-5.90295810e+20 -1.18059162e+21]
[07-19 22:58:35][INFO] Iteración 136: [1.18059162e+21 -1.18059162e+21]
[07-19 22:58:35][INFO] Iteración 137: [1.18059162e+21 2.36118324e+21]
[07-19 22:58:35][INFO] Iteración 138: [-2.36118324e+21 2.36118324e+21]
[07-19 22:58:35][INFO] Iteración 139: [-2.36118324e+21 -4.72236648e+21]
[07-19 22:58:35][INFO] Iteración 140: [4.72236648e+21 -4.72236648e+21]
[07-19 22:58:35][INFO] Iteración 141: [4.72236648e+21 9.44473297e+21]
[07-19 22:58:35][INFO] Iteración 142: [-9.44473297e+21 9.44473297e+21]
[07-19 22:58:35][INFO] Iteración 143: [-9.44473297e+21 -1.88894659e+22]
[07-19 22:58:35][INFO] Iteración 144: [1.88894659e+22 -1.88894659e+22]
[07-19 22:58:35][INFO] Iteración 145: [1.88894659e+22 3.77789319e+22]
[07-19 22:58:35][INFO] Iteración 146: [-3.77789319e+22 3.77789319e+22]
[07-19 22:58:35][INFO] Iteración 147: [-3.77789319e+22 -7.55578637e+22]
[07-19 22:58:35][INFO] Iteración 148: [7.55578637e+22 -7.55578637e+22]
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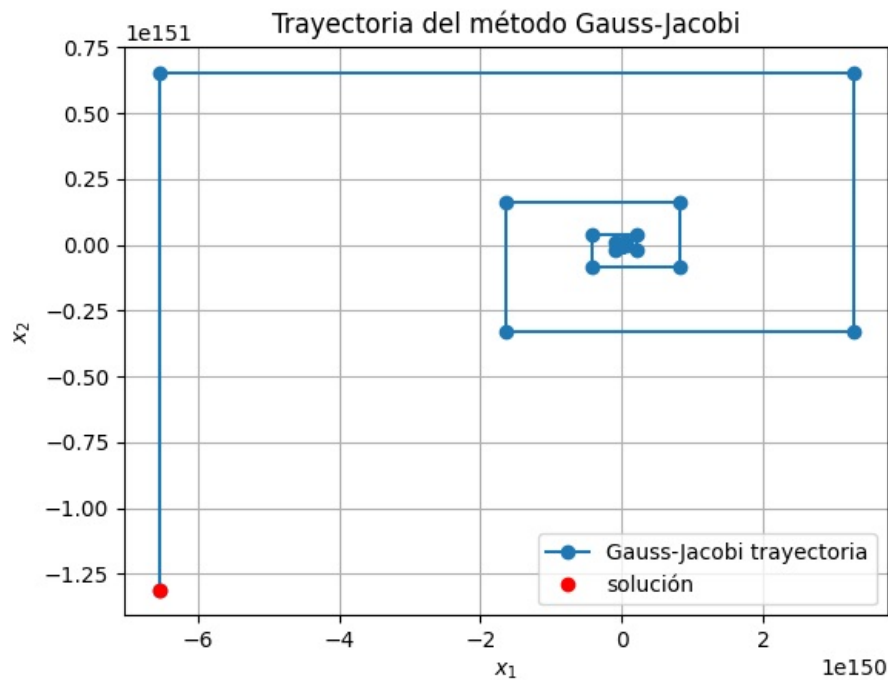
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