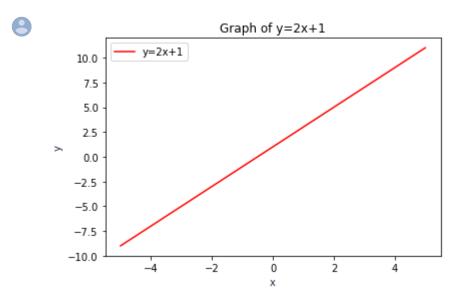
ESERCITAZIONE LAB

```
import matplotlib.pyplot as plt
import numpy as np
x = np.linspace(-?,?,100)
y = ???????
plt.plot(x, y, '-r', label='y=2x+1')
plt.title('Graph of y=2x+1')
plt.xlabel('x', color='#1C2843')
plt.ylabel('y', color='#1C2843')
plt.legend(loc='upper left')
#plt.grid()
plt.show()
```



```
# 100 linearly spaced numbers
x = np.linspace(?,?,?)

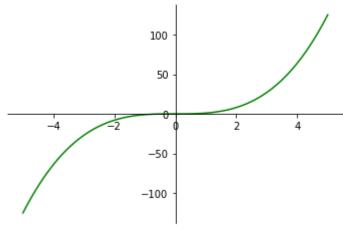
# the function, which is y = ??? here
y = ???

# setting the axes at the centre
fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
ax.spines['left'].set_position('center')
ax.spines['bottom'].set_position('center')
ax.spines['right'].set_color('none')
ax.spines['top'].set color('none')
```

```
ax.xaxis.set_ticks_position('bottom')
ax.yaxis.set_ticks_position('left')

# plot the function
plt.plot(x,y, '?')
```

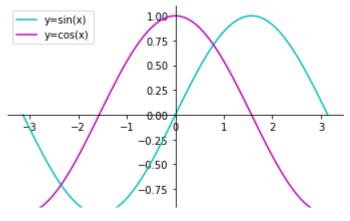
[<matplotlib.lines.Line2D at 0x7fb5e46f8208>]



```
# 100 linearly spaced numbers
x = np.linspace(?,?,?)
# the function, which is y = sin(x) here
y = np.??(x)
# setting the axes at the centre
fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
ax.spines['left'].set_position('center')
ax.spines['bottom'].set_position('center')
ax.spines['right'].set color('none')
ax.spines['top'].set color('none')
ax.xaxis.set ticks position('bottom')
ax.yaxis.set ticks position('left')
# plot the function
plt.plot(x,y, 'b')
# show the plot
plt.show()
```



```
import matplotlib.pyplot as plt
import numpy as np
# 100 linearly spaced numbers
x = np.linspace(?,?,100)
# the functions, which are y = ? and z = ? here
y = np.?(x)
z = np.?(x)
# setting the axes at the centre
fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
ax.spines['left'].set_position('center')
ax.spines['bottom'].set_position('center')
ax.spines['right'].set color('none')
ax.spines['top'].set color('none')
ax.xaxis.set_ticks_position('bottom')
ax.yaxis.set ticks position('left')
# plot the functions
plt.plot(x,y, 'c', label='y=sin(x)')
plt.plot(x,z, 'm', label='y=cos(x)')
plt.legend(loc='upper left')
# show the plot
plt.show()
```



np.??

8

3.141592653589793

```
# 100 linearly spaced numbers
x = np.linspace(?,?,?)
# the function, which is y = e^x here
A = 5555
# setting the axes at the centre
fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
ax.spines['left'].set_position('center')
ax.spines['bottom'].set position('zero')
ax.spines['right'].set color('none')
ax.spines['top'].set color('none')
ax.xaxis.set ticks position('bottom')
ax.yaxis.set_ticks_position('left')
# plot the function
plt.plot(x,y, 'y', label='y=e^x')
plt.legend(loc='upper left')
# show the plot
plt.show()
```

8

