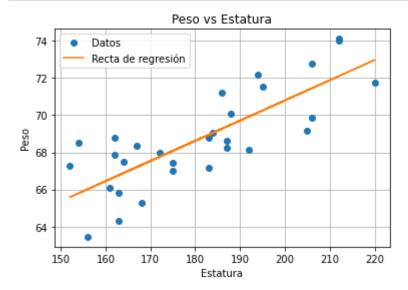
```
In [1]: x=[162,212,220,206,152,183,167,175,156,186,183,163,163,172,194,168,161,164,188,18
         y=[68.78,74.11,71.73,69.88,67.25,68.78,68.34,67.01,63.45,71.19,67.19,65.80,64.30]
 In [4]: import numpy as np
         import matplotlib.pyplot as plt
 In [5]: n=len(y)
         n
 Out[5]: 30
 In [6]: x=np.array(x)
         y=np.array(y)
 Out[6]: array([68.78, 74.11, 71.73, 69.88, 67.25, 68.78, 68.34, 67.01, 63.45,
                71.19, 67.19, 65.8, 64.3, 67.97, 72.18, 65.27, 66.09, 67.51,
                70.1, 68.25, 67.89, 68.14, 69.08, 72.8, 67.42, 68.49, 68.61,
                74.03, 71.52, 69.18])
In [10]: sumx=sum(x)
         sumy=sum(y)
         sumx2=sum(x**2)
         sumy2=sum(y**2)
         sumxy=sum(x*y)
         promx=sumx/n
         promy=sumy/n
In [11]: m=(sumx*sumy - sumxy*n)/(sumx**2 - n*sumx2)
         b=promy - m*promx
         m,b
Out[11]: (0.10861078195357493, 49.07163369547579)
```

```
In [12]: plt.plot(x,y, 'o', label='Datos')
    plt.plot(x, m*x + b, label='Recta de regresión')
    plt.xlabel('Estatura')
    plt.ylabel('Peso')
    plt.title('Peso vs Estatura')
    plt.grid()
    plt.legend()
    plt.show()
```



```
In [ ]:
```