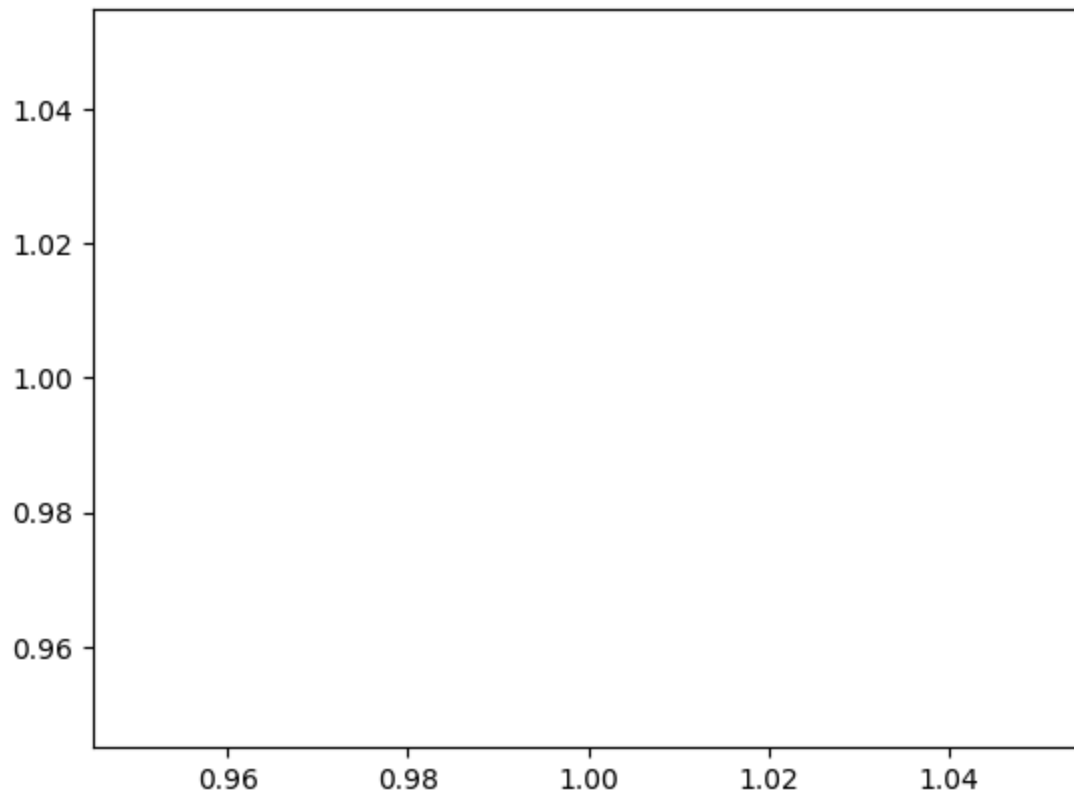
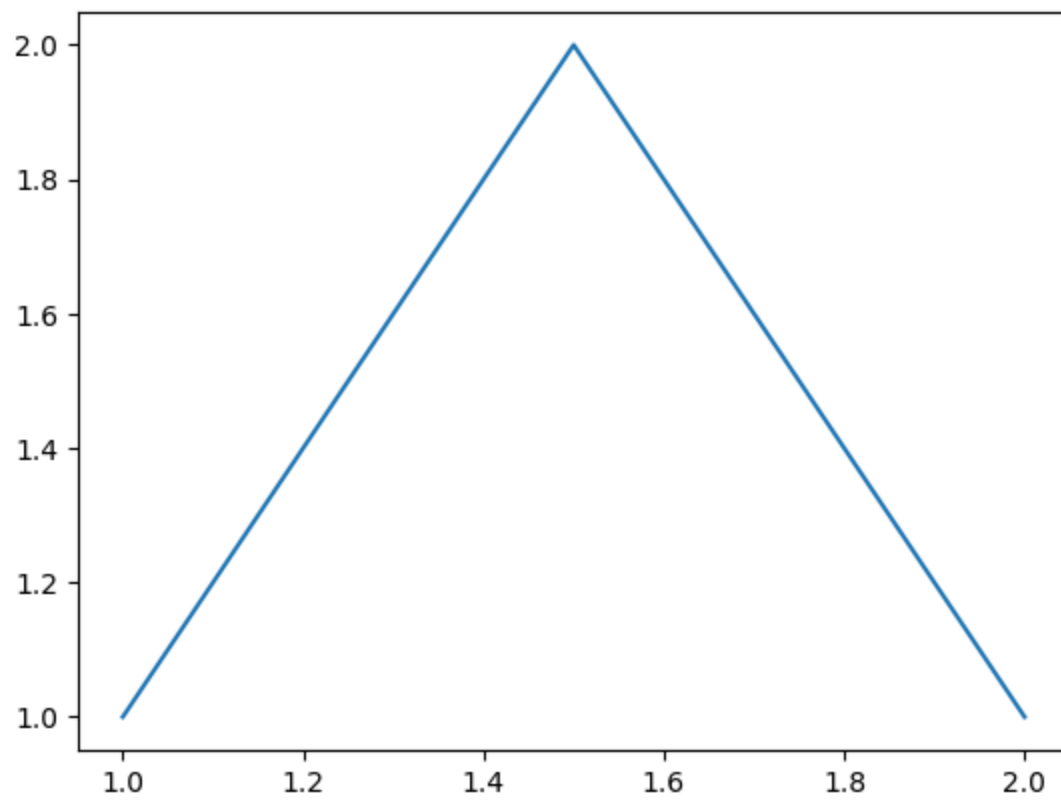


```
In [3]: import matplotlib.pyplot as plt
```

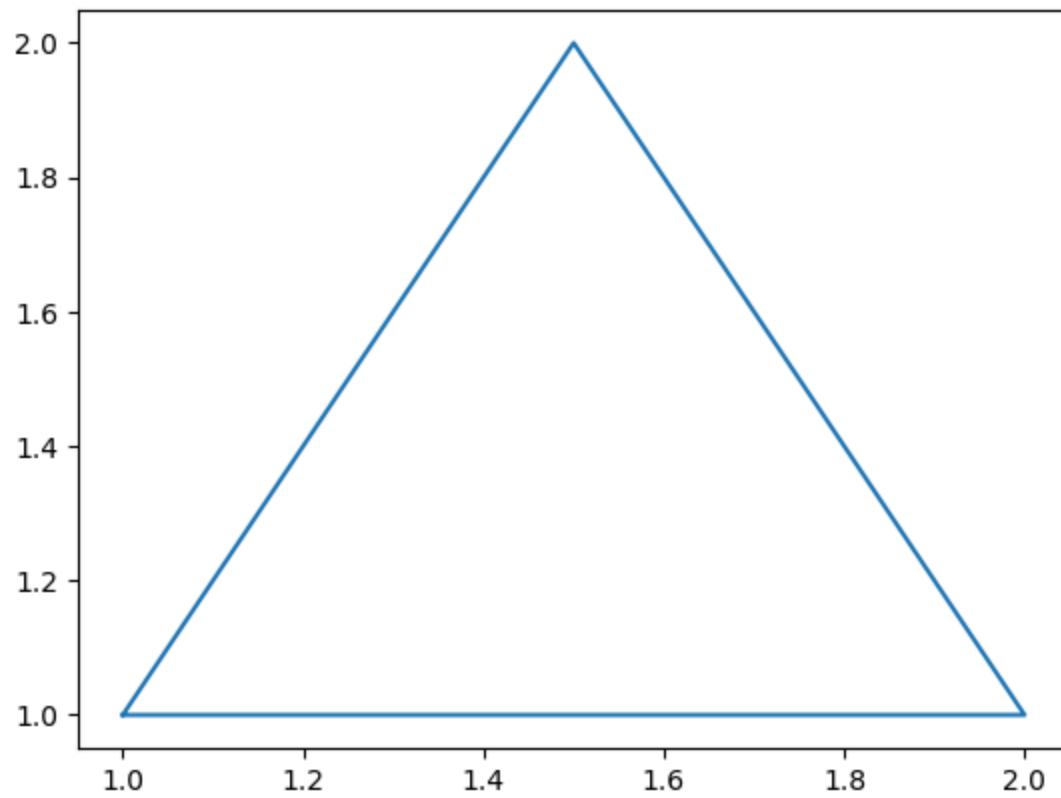
```
In [3]: # Une los puntos [x][y], [1-1, 1.5-2, 2-1, 1-1]  
plt.plot([1],[1])  
plt.show()
```



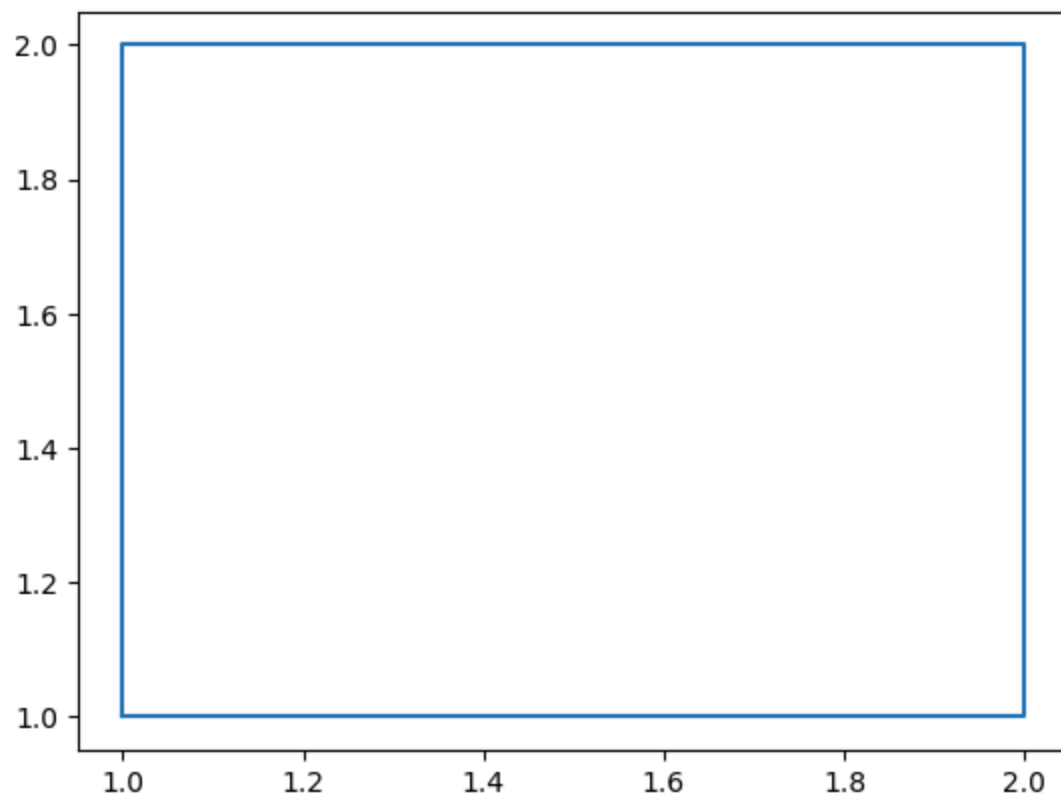
```
In [5]: plt.plot([1,1.5,2],[1,2,1])  
plt.show()
```



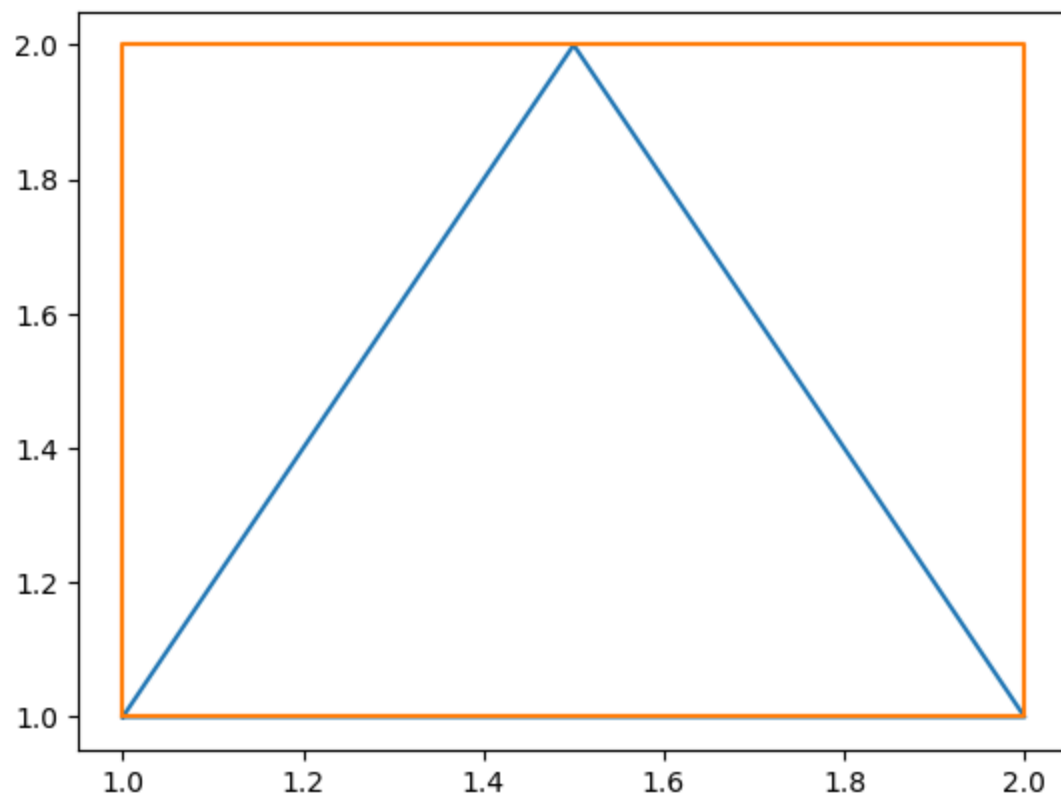
```
In [20]: plt.plot([1,1.5,2,1],[1,2,1,1])  
plt.show()
```



```
In [32]: plt.plot([1,1,2,2,1],[1,2,2,1,1])  
plt.show()
```



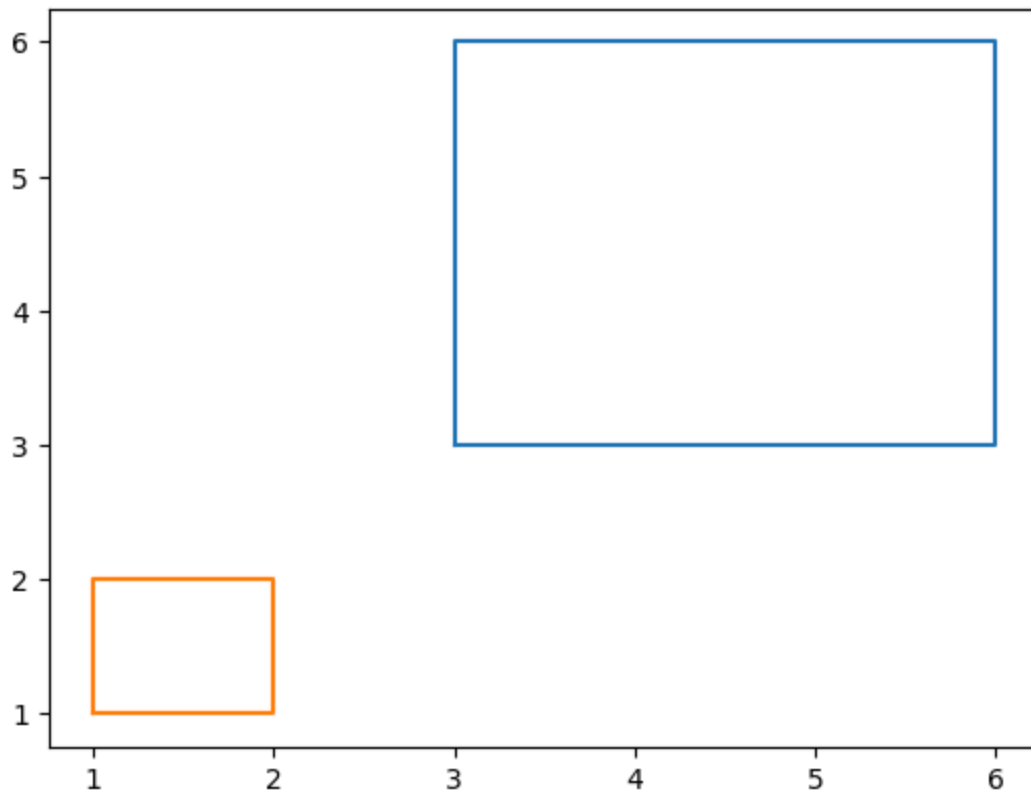
```
In [33]: plt.plot([1,1.5,2,1],[1,2,1,1])  
plt.plot([1,1,2,2,1],[1,2,2,1,1])  
plt.show()
```



ESCALAR

In [109...

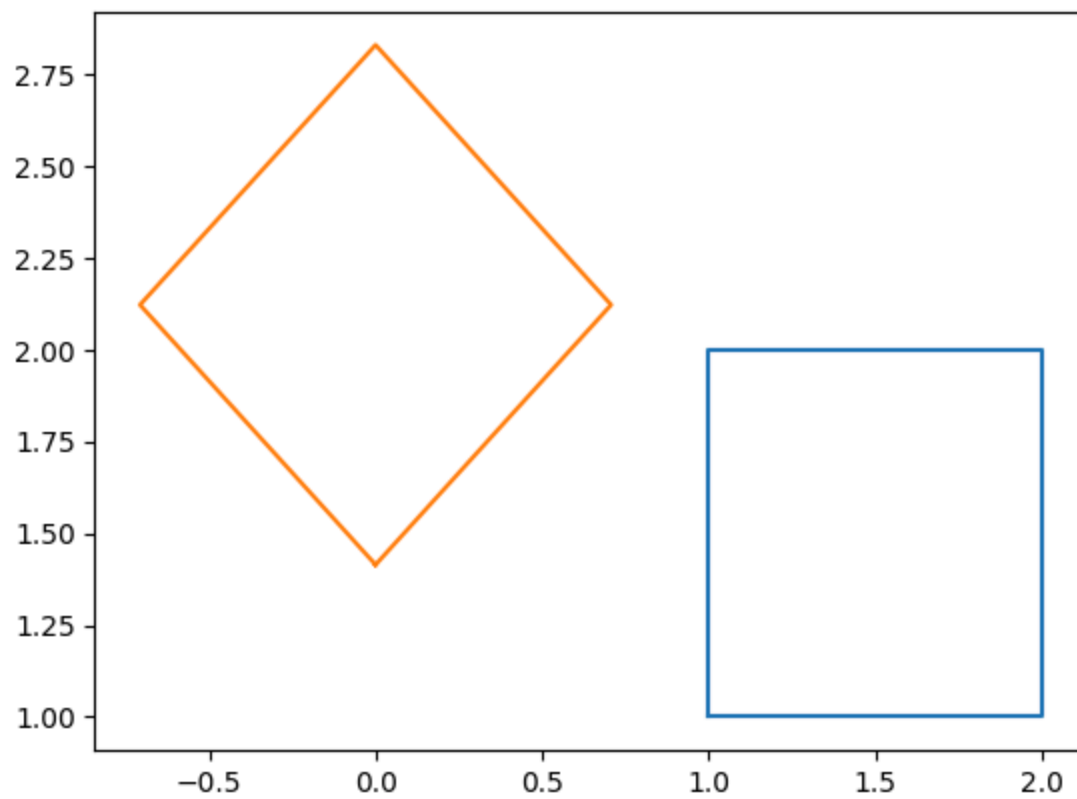
```
esca = 3
plt.plot([1*esca, 2*esca, 2*esca, 1*esca, 1*esca],[1*esca, 1*esca, 2*esca, 2*esca, 1*esca])
plt.plot([1,1,2,2,1],[1,2,2,1,1])
plt.show()
```



ROTACIÓN

In [104...

```
import numpy as np
x = [1, 2, 2, 1, 1]
y = [1, 1, 2, 2, 1]
plt.plot(x,y)
tetha = np.radians(45)
rotacionX = np.cos(tetha) * np.array(x) - np.sin(tetha) * np.array(y)
rotacionY = np.sin(tetha) * np.array(x) + np.cos(tetha) * np.array(y)
plt.plot(rotacionX, rotacionY)
plt.show()
```



TRANSLACIÓN

```
In [75]: plt.plot([1, 2, 2, 1, 1],[1, 1, 2, 2, 1])  
plt.plot([4, 5, 5, 4, 4],[4, 4, 5, 5, 4])  
plt.show()
```

