In [4]:

```python
import numpy as np
import skfuzzy as sk
import matplotlib.pyplot as plt

x = np.arange(0, 11, 1)

bajo = sk.trimf(x,[0, 0, 5])
medio = sk.trimf(x,[0, 5, 10])

plt.figure()
plt.plot(x,bajo, 'b', linewidth = 1.5, label = 'Bajo')
plt.plot(x,medio, 'r', linewidth = 1.5, label = 'Medio')

plt.title('Función unión')
plt.ylabel('Membresía')
plt.xlabel('Velocidad (Km/h)')
plt.legend(loc='center right', bbox_to_anchor=(1.25,0.5), ncol=1, fancybox=T

plt.axvline(x=0, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=1, ymin=0, ymax=10,color="g", linestyle='-.')
plt.axvline(x=2, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=3, ymin=0, ymax=10,color="g", linestyle='-.')
plt.axvline(x=4, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=5, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=6, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=7, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=8, ymin=0,ymax=10, color="g", linestyle='-.')
plt.axvline(x=9, ymin=0, ymax=10, color="g", linestyle='-.')
plt.axvline(x=10, ymin=0, ymax=10, color="g", linestyle='-.')

plt.plot(0,1, marker='o', markersize=10, color="g")
plt.plot(1,0.8, marker='o', markersize=10, color="g")
plt.plot(2,0.6, marker='o', markersize=10, color="g")
plt.plot(3,0.6, marker='o',  markersize=10, color="g")
plt.plot(4,0.8, marker='o', markersize=10, color="g")
plt.plot(5,1, marker='o', markersize=10, color="g")
plt.plot(6,0.8, marker='o', markersize=10, color="g")
plt.plot(7,0.6, marker='o', markersize=10, color="g")
plt.plot(8,0.4, marker='o', markersize=10, color="g")
plt.plot(9,0.2, marker='o', markersize=10, color="g")
plt.plot(10,0, marker='o', markersize=10, color="g")

plt.show()
sk.fuzzy_or(x, bajo, x, medio)
```
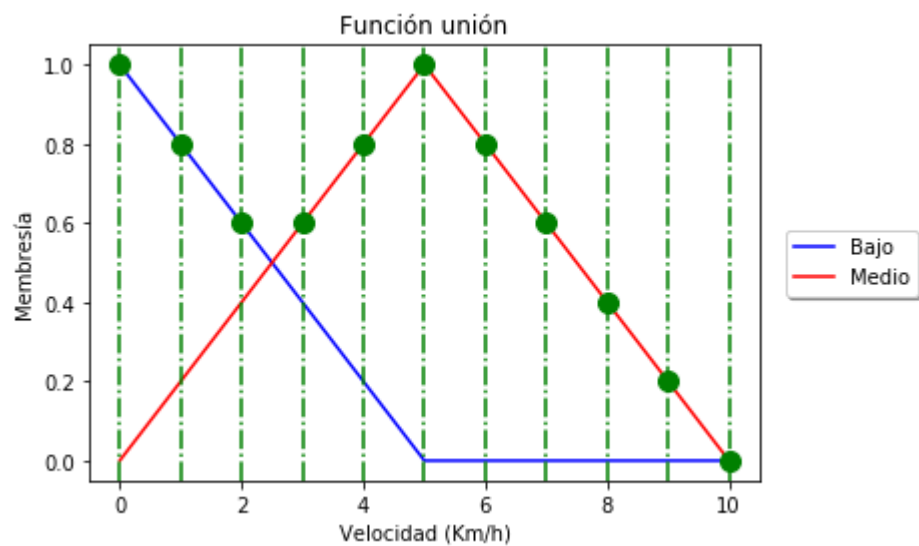
Out[4]: (array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]),
        array([1. , 0.8, 0.6, 0.6, 0.8, 1. , 0.8, 0.6, 0.4, 0.2, 0.]))

In [ ]:   1