```
In [1]: import numpy as np
import matplotlib.pyplot as plt
```

mcculloch_pitts_neuron

```
In [33]: def mcculloch_pitts_neuron(inputs, weights, threshold):
    inputs = np.array(inputs)
    weights = np.array(weights)

weighted_sum = sum(inputs * weights)
    return 1 if weighted_sum >= threshold else 0
```

AND

OR

0 0

1 1 0

NOT

```
In [40]: weights = [-1]
    threshold = 0
    print(mcculloch_pitts_neuron(inputs=[1], weights=weights, threshold=threshold))
    print(mcculloch_pitts_neuron(inputs=[0], weights=weights, threshold=threshold))
0
1
```

NAND

NOR

1

0