wkwuvcuef

March 31, 2025

0.1 Practical 2

```python
import numpy as np

def ANDNOT(x1, x2):
    weights = np.array([1, -1])
    threshold = 1

    net_input = np.dot(weights, [x1, x2])
    output = 1 if net_input >= threshold else 0
    return output


print("X1 X2 | ANDNOT")
print("--------------")
for x1 in [0, 1]:
    for x2 in [0, 1]:
        print(f"{x1}  {x2}  |   {ANDNOT(x1, x2)}")
```

```
X1 X2 | ANDNOT
--------------
0  0  |   0
0  1  |   0
1  0  |   1
1  1  |   0
```