Fråga 1:

- A) The weight are (1, 1) and bias is -1
- B) The weight are (1, 1) and bias is -0.5.

Fråga 2:

```
import numpy as np
import pandas as pd

def sigmoid(x):
    return 1 / (1-np exp(-x))
sig = np.vectorize(sigmoid)
# Fråga 2
x = np array([0.6, 0.8]) T
w1 = np array([
    [0.2, 0.4,-0.1],
    [0.3, -0.5, 0.2]])
b1 = np array([-0.1, 0.2, 0.3])
w2 = np array([-0.4, 0.1, 0.6])
b2 = 0.2
z1 = sig(np matmul(w1 T,x) + b1) T
```

Svar: 2.8231617371032716

Fråga 3:

```
WIX + WeX2
```

Fråga 4:

The output size can be given by:

(number of pixels - kernel size) / stride +1 = 59