1. Since we do not apply the activation function for our input vector, we can make a matrix of our weights and biases for the first layer:

```
theta1 =

     7     1     1     1
    -3    -8     1     2
     5   -10     1    -1


b1 =

    30    20     0   -10
```

Multiplying the input vector and the weights and adding the biases:

```
ans =

   115    10    25    35
```

Since none of these numbers are negative, this will be the vector which is passed into the weights and biases of our output layer:

```
theta2 =

     4    10
     2     0
     0    10
     1     0


b2 =

    10    50
```

Multiplying our input with these weights and adding the biases:

```
ans =

         525        1450
```

Thus, the output for our neural network with an input of $x = [25, 10, -5]$ is $[525, 1450]$ since none of the ouputs are negative.