



Figure 1: Use this neural network to answer the problem below.

3) Using Figure 1, answer the following questions. Assume there are no bias terms contributing to the input nor any of the activations in each layer.

a. How many layers (L) are there in this neural network? (2 point)

b. How many classes will this neural network classify? (2 point)

c. What are the dimensions of $W^{(2)}$? (4 points)

d. State the equation for $a_2^{(3)}$. (4 points)

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