

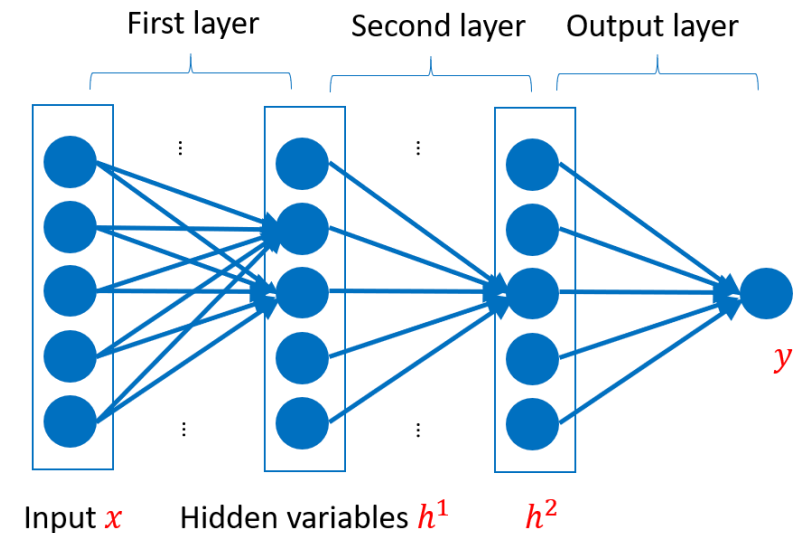
Q1-1: Select the correct option.

- A. *The more hidden-layer units a Neural Network has, the better it can predict desired outputs for new inputs that it was not trained with.*
  - B. *A 3-layers Neural Network with 5 neurons in the input and hidden representations and 1 neuron in the output has a total of 55 connections.*
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- 1. Both statements are true.
  - 2. Both statements are false.
  - 3. Statement A is true, Statement B is false.
  - 4. Statement B is true, Statement A is false.

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Q2-1: Are these statements true or false?

(A) Backpropagation is based on the chain rule.

(B) Backpropagation contains only forward passes.

1. True, True
2. True, False
3. False, True
4. False, False

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3. False, True

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(A) We use chain rule to calculate the partial derivatives of composite functions like neural network.

(B) It contains both forward and backward passes.