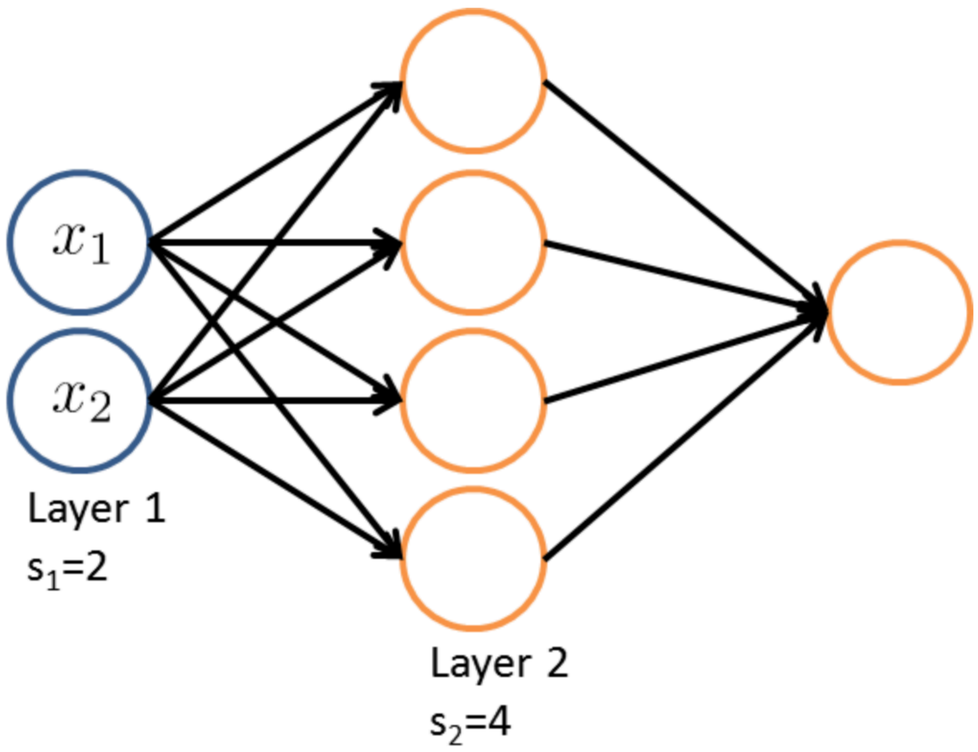
Consider the following neural network:



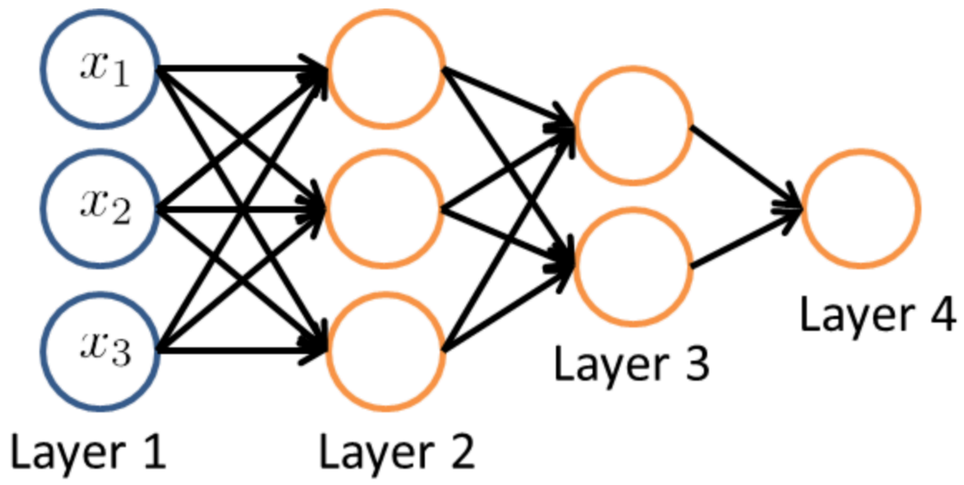
What is the dimension of $\Theta^{(1)}$ (Hint: add a bias unit to the input and hidden layers)?

- 2×4
- 4×2
- 3×4
- 4×3

Correct

Continue

Consider the network:



Let $a^{(1)} = x \in \mathbb{R}^{n+1}$ denote the input (with $a_0^{(1)} = 1$).

How would you compute $a^{(2)}$?

- $a^{(2)} = \Theta^{(1)} a^{(1)}$
- $z^{(2)} = \Theta^{(2)} a^{(1)};\ a^{(2)} = g(z^{(2)})$
- $z^{(2)} = \Theta^{(1)} a^{(1)};\ a^{(2)} = g(z^{(2)})$

Correct

- $z^{(2)} = \Theta^{(2)} g(a^{(1)});\ a^{(2)} = g(z^{(2)})$

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