Practice quiz: Gradient descent in practice
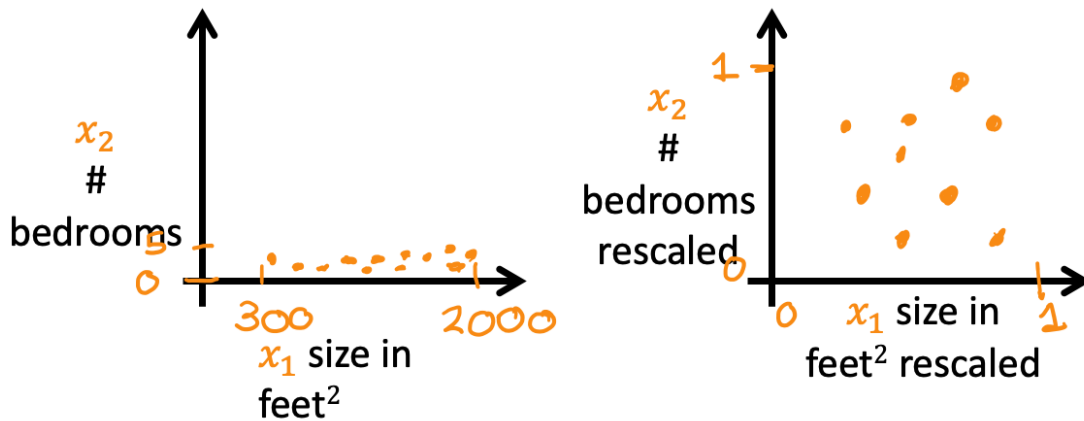
Puntos totales 4

1.   1 punto
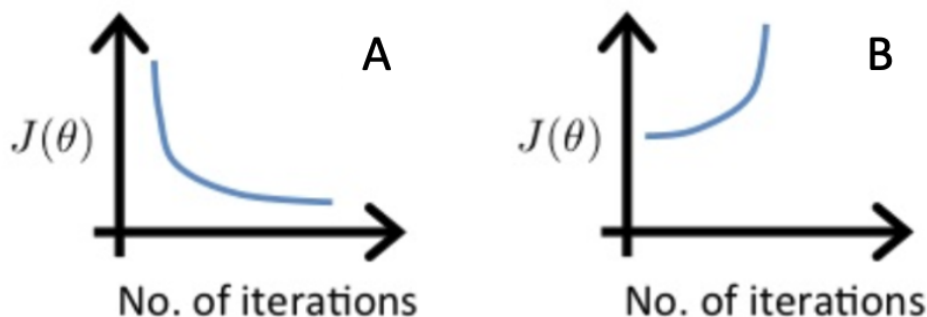

Which of the following is a valid step used during feature scaling?

○ Add the mean (average) from each value and and then divide by the (max - min).

◉ Subtract the mean (average) from each value and then divide by the (max - min).

2. Suppose a friend ran gradient descent three separate times with three   1 punto
choices of the learning rate α and plotted the learning curves for each (cost J
for each iteration).

For which case, A or B, was the learning rate α likely too large?

◉ case B only

○ Both Cases A and B

○ Neither Case A nor B

○ case A only

3. Of the circumstances below, for which one is feature scaling particularly helpful?

1 punto

◉ Feature scaling is helpful when one feature is much larger (or smaller) than another feature.

○ Feature scaling is helpful when all the features in the original data (before scaling is applied) range from 0 to 1.

4.

1 punto

You are helping a grocery store predict its revenue, and have data on its items sold per week, and price per item. What could be a useful engineered feature?

◉ For each product, calculate the number of items sold times price per item.

○ For each product, calculate the number of items sold divided by the price per item.