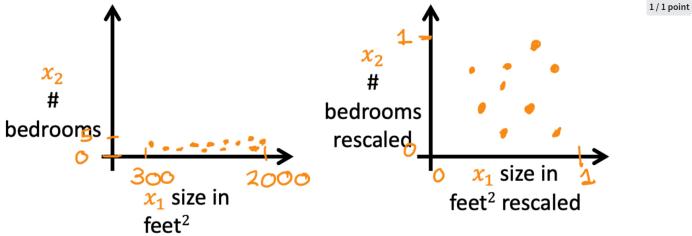
Congratulations! You passed!

Grade received 100% **Latest Submission Grade** 100% **To pass** 70% or higher

Go to next item

1.



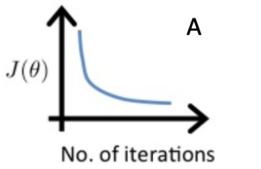
Which of the following is a valid step used during feature scaling?

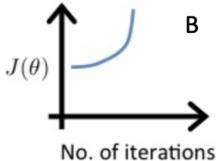
- Add the mean (average) from each value and and then divide by the (max min).
- Subtract the mean (average) from each value and then divide by the (max min).
- **⊘** Correct

This is called mean normalization.

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

1/1 point





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

- Neither Case A nor B
- ocase A only
- O Both Cases A and B
- ase B only
- **⊘** Correct

3. Of the circumstances below, for which one is feature scaling particularly helpful? 1/1 point Feature scaling is helpful when all the features in the original data (before scaling is applied) range from 0 to 1. Feature scaling is helpful when one feature is much larger (or smaller) than another feature. For example, the "house size" in square feet may be as high as 2,000, which is much larger than the feature "number of bedrooms" having a value between 1 and 5 for most houses in the modern era. 4. 1/1 point 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? O For each product, calculate the number of items sold divided by the price per item. For each product, calculate the number of items sold times price per item. **⊘** Correct This feature can be interpreted as the revenue generated for each product. 5. True/False? With polynomial regression, the predicted values f_w,b(x) does not necessarily have to be a straight line (or linear) function of the input feature x. 1/1 point True O False **⊘** Correct A polynomial function can be non-linear. This can potentially help the model to fit the training data better.

The cost is increasing as training continues, which likely indicates that the learning rate alpha is too large.