## Congratulations! You passed!

**Latest Submission** received 100% Grade 100%

To pass 70% or higher

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1. In the training set below, what is  $x_4^{(3)}$ ? Please type in the number below (this is an integer such as 123, no decimal

1/1 point

Size in feet²	Number of bedrooms	Number of floors	Age of home in years	Price (\$) in \$1000's
X <sub>1</sub>	X <sub>2</sub>	Хз	Хų	
2104	5	1	45	460
1416	3	2	40	232
1534	3	2	30	315
852	2	1	36	178

30	
$\bigcirc$ Correct Yes! $x_4^{(3)}$ is the 4th feature (4th column in the table) of the 3rd training example (3rd row in the table).	

2. 1/1 point  $Which of the following are potential benefits of vectorization? \ Please choose the best option.$ O It makes your code run faster O It can make your code shorter O It allows your code to run more easily on parallel compute hardware All of the above **⊘** Correct Correct! All of these are benefits of vectorization! 3. True/False? To make gradient descent converge about twice as fast, a technique that almost always works is to 1/1 point double the learning rate alpha. O True False

**⊘** Correct

Doubling the learning rate may result in a learning rate that is too large, and cause gradient descent to fail to find the optimal values for the parameters  $\boldsymbol{w}$  and  $\boldsymbol{b}$ .