

# Practice quiz: Multiple linear regression

Puntos totales 4

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 points).

1 punto

Size in feet <sup>2</sup> $x_1$	Number of bedrooms $x_2$	Number of floors $x_3$	Age of home in years $x_4$	Price (\$) in \$1000's
2104	5	1	45	460
1416	3	2	40	232
1534	3	2	30	315
852	2	1	36	178
...	...	...	...	...

30

2.

1 punto

Which of the following are potential benefits of vectorization? Please choose the best option.

- ☐ It can make your code shorter
- ☐ It makes your code run faster
- ☐ It allows your code to run more easily on parallel compute hardware
- ☒ All of the above

3. True/False? To make gradient descent converge about twice as fast, a technique that almost always works is to double the learning rate *alpha*.

1 punto

- ☐ True
- ☒ False

4.

1 punto

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  $x$ .

- ☐ True
- ☒ False