

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 point

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

30

1 point

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

- ☐ It makes your code run faster
- ☐ It can make your code shorter
- ☐ 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 point

- ☐ True
- ☒ False