✓ **Selamat! Anda lulus!**

| Nilai diterima 100% | Nilai Pengiriman Terbaru 100% | UNTUK LULUS 70% atau lebih tinggi | **Pergi ke item berikutnya** |

**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 / 1 poin

| Size in feet² $X_1$ | 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

✓ **Benar**

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 poin

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

✓ **Benar**

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 double the learning rate $alpha$.

1 / 1 poin

○ True

● False

✓ **Benar**

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 $w$ and $b$.