✖ Vuelve a intentarlo cuando estés listo.

Puntaje necesario para aprobar: 80% o superior

Puedes volver a tomar este cuestionario hasta 3 times cada 8 Horas.

Volver a la semana 1

Volver a tomar

✔ 1 / 1 puntos

1.
Consider the problem of predicting how well a student does in her second year of college/university, given how well she did in her first year.

Specifically, let x be equal to the number of "A" grades (including A-. A and A+ grades) that a student receives in their first year of college (freshmen year). We would like to predict the value of y, which we define as the number of "A" grades they get in their second year (sophomore year).

Refer to the following training set of a small sample of different students' performances (note that this training set may also be referenced in other questions in this quiz). Here each row is one training example. Recall that in linear regression, our hypothesis is $h_\theta(x) = \theta_0 + \theta_1 x$, and we use m to denote the number of training examples.

x	y
3	4
2	1
4	3
0	1

For the training set given above, what is the value of m? In the box below, please enter your answer (which should be a number between 0 and 10).

✖ 0 / 1 puntos

using the training set from Q1. Recall our definition of the

cost function was $J(\theta_0, \theta_1) = \frac{1}{2m} \sum_{i=1}^{m} (h_\theta(x^{(i)}) - y^{(i)})^2$.

What is $J(0, 1)$? In the box below,

please enter your answer (Simplify fractions to decimals when entering answer, and '.' as the decimal delimiter e.g., 1.5).

✔ **1 / 1**
puntos

3.

Suppose we set $\theta_0 = -1, \theta_1 = 2$ in the linear regression hypothesis from Q1. What is $h_\theta(6)$?

✖ **0 / 1**
puntos

4.

Let f be some function so that

$f(\theta_0, \theta_1)$ outputs a number. For this problem,

f is some arbitrary/unknown smooth function (not necessarily the

cost function of linear regression, so f may have local optima).

Suppose we use gradient descent to try to minimize $f(\theta_0, \theta_1)$

as a function of θ_0 and θ_1. Which of the

following statements are true? (Check all that apply.)

✔ **1 / 1**
puntos

5.

Suppose that for some linear regression problem (say, predicting housing prices as in the lecture), we have some training set, and for our training set we managed to find some θ_0, θ_1 such that $J(\theta_0, \theta_1) = 0$.

Which of the statements below must then be true? (Check all that apply.)

3/5 points (60 %)