✓ **Congratulations! You passed!**   Next Item

✓ 1. Suppose that you have trained a logistic regression classifier, and it outputs on a new
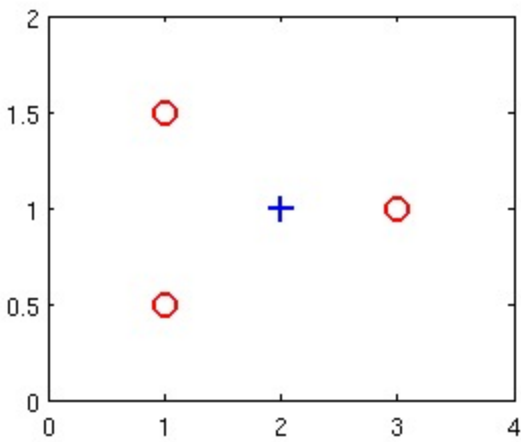   example x a prediction $h_\theta(x) = 0.7$. This means (check all that apply):

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✓ 2. Suppose you have the following training set, and fit a logistic regression classifier
       $h_\theta(x) = g(\theta_0 + \theta_1 x_1 + \theta_2 x_2)$.

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x_1	x_2	y
1	0.5	0
1	1.5	0
2	1	1
3	1	0

Which of the following are true? Check all that apply.

✓ 3. For logistic regression, the gradient is given by
       $\frac{\partial}{\partial \theta_j} J(\theta) = \frac{1}{m} \sum_{i=1}^{m} (h_\theta(x^{(i)}) - y^{(i)}) x_j^{(i)}$. Which of these is a correct gradient descent
       update for logistic regression with a learning rate of α? Check all that apply.

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✗ 4. Which of the following statements are true? Check all that apply.

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✓ 5. Suppose you train a logistic classifier $h_\theta(x) = g(\theta_0 + \theta_1 x_1 + \theta_2 x_2)$. Suppose
       $\theta_0 = -6, \theta_1 = 1, \theta_2 = 0$. Which of the following figures represents the decision
       boundary found by your classifier?

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