# Logistic Regression

Quiz, 5 questions

**5/5 points (100%)**

## Congratulations! You passed!

Next Item

1 / 1 points

1.

Suppose that you have trained a logistic regression classifier, and it outputs on a new example $x$ a prediction $h_\theta(x)$ = 0.2. This means (check all that apply):

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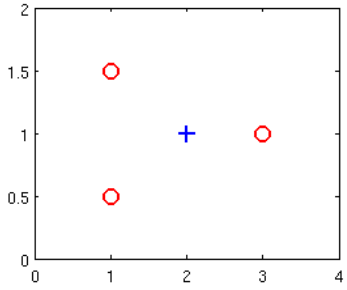
1 / 1 points

2.

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

| $x_1$ | $x_2$ | $y$ |
|---|---|---|
| 1 | 0.5 | 0 |
| 1 | 1.5 | 0 |
| 2 | 1 | 1 |
| 3 | 1 | 0 |




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

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1 / 1 points

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 $\alpha$? Check all that apply.

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1 / 1 points

4.

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

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1 / 1 points

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?