# Logistic Regression

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| **#** | **Question** | **Answer** |
| 1 | Suppose that you have trained a logistic regression classifier, and it outputs on a new example x a prediction hθ(x) = 0.7. This means (check all that apply): | 1. Our estimate for P(y=1|x;θ) is 0.7. 2. Our estimate for P(y=0|x;θ) is 0.3. |
| 2 | Suppose you have the following training set, and fit a logistic regression classifier hθ(x)=g(θ0+θ1x1+θ2x2). | 1. Adding polynomial features (e.g., instead using ../../../../../../Desktop/Снимок%20экрана%202017-10-15%20в%202could increase how well we can fit the training data. 2. At the optimal value of θ (e.g., found by fminunc), we will have J(θ)≥0. |
| 3 | Which of the following statements are true? Check all that apply. | T |
| 4 | Suppose you train a logistic classifier hθ(x)=g(θ0+θ1x1+θ2x2). Suppose θ0=6,θ1=0,θ2=−1. Which of the following figures represents the decision boundary found by your classifier? |  |
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