Cuestionario, 5 questions

point

You are training a classification model with logistic

regression. Which of the following statements are true? Check

all that apply.

performance on examples not in the training set. Adding a new feature to the model always results in equal or better

Introducing regularization to the model always results in equal or better

- performance on the training set.
- Introducing regularization to the model always results in equal or better performance on the training set.
- Adding many new features to the model helps prevent overfitting on the training set.

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Suppose you ran logistic regression twice, once with $\lambda=0$, and once with $\lambda=1$. One of the times, you got

parameters $\theta = \begin{bmatrix} 81.47 \\ 12.69 \end{bmatrix}$, and the other time you got

 $\theta = \begin{bmatrix} 13.01 \\ 0.91 \end{bmatrix}$. However, you forgot which value of

 λ corresponds to which value of θ . Which one do you

think corresponds to $\lambda = 1$?

- $\theta = \begin{bmatrix} 81.47 \\ 12.69 \end{bmatrix}$

point

Which of the following statements about regularization are 3.

true? Check all that apply.

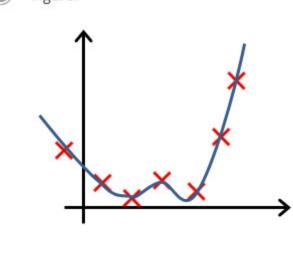
- Using a very large value of λ cannot hurt the performance of your hypothesis; the only reason we do not set λ to be too large is to avoid numerical problems.
- Because regularization causes $J(\boldsymbol{\theta})$ to no longer be convex, gradient descent may not always converge to the global minimum (when $\lambda>0$, and when using an appropriate learning rate α).
- Because logistic regression outputs values $0 \leq h_{\theta}(x) \leq 1$, its range of output values can only be "shrunk" slightly by regularization anyway, so regularization is generally not helpful for it.

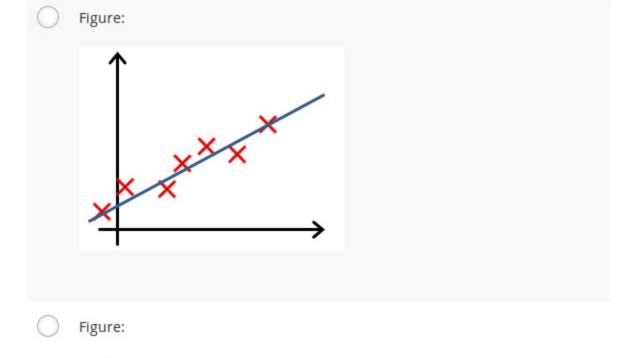
Using too large a value of $\boldsymbol{\lambda}$ can cause your hypothesis to underfit the data.

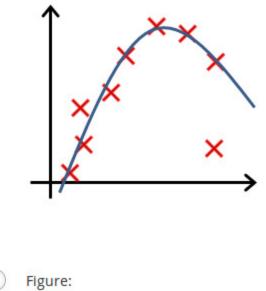
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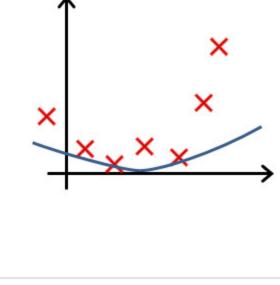
4. training set? Figure:

In which one of the following figures do you think the hypothesis has overfit the









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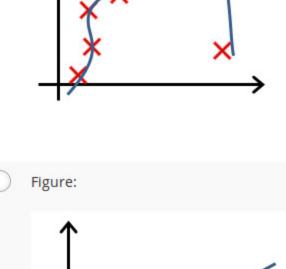
5.

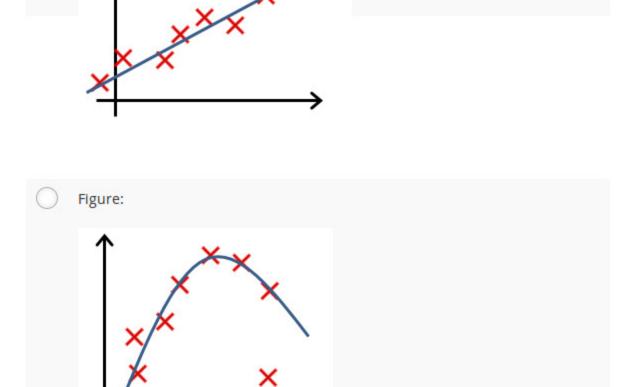
training set?

Figure:

In which one of the following figures do you think the hypothesis has underfit the







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