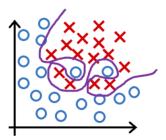
- 1. Which of the following can address overfitting?
 - ✓ Collect more training data
 - Select a subset of the more relevant features.
 - Apply regularization
 - Remove a random set of training examples
- ${\bf 2.} \quad \hbox{You fit logistic regression with polynomial features to a dataset, and your model looks like this.}$

1 point

1 point

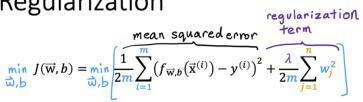


What would you conclude? (Pick one)

- The model has high bias (underfit). Thus, adding data is likely to help
- The model has high variance (overfit). Thus, adding data is likely to help
- O The model has high bias (underfit). Thus, adding data is, by itself, unlikely to help much.
- The model has high variance (overfit). Thus, adding data is, by itself, unlikely to help much.

Regularization

1 point



- 3. Suppose you have a regularized linear regression model. If you increase the regularization parameter λ , what do you expect to happen to the parameters $w_1, w_2, ..., w_n$?
 - lacksquare This will reduce the size of the parameters $w_1, w_2, ..., w_n$
 - \bigcirc This will increase the size of the parameters $w_1, w_2, ..., w_n$