- Select a subset of the more relevant features.

If the model trains on the more relevant features, and not on the less useful features, it may generalize better to new examples.

- Remove a random set of training examples
- Collect more training data
 - ✓ Correct

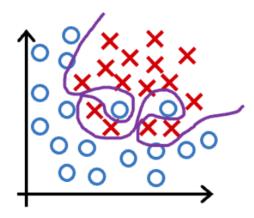
If the model trains on more data, it may generalize better to new examples.

- Apply regularization
 - ✓ Correct

Regularization is used to reduce overfitting.

2. You fit logistic regression with polynomial features to a dataset, and your model looks like this.

1 / 1 point



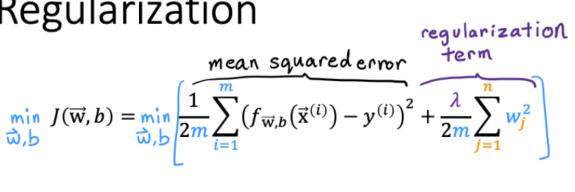
What would you conclude? (Pick one)

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

The model has high variance (it overfits the training data). Adding data (more training examples) can help.

Regularization

1 / 1 point



Suppose you have a regularized linear regression model. If you increase the regularization parameter λ , what do you expect to happen to the parameters $w_1, w_2, ..., w_n$?

- lacktriangle This will reduce the size of the parameters $w_1, w_2, ..., w_n$
- igcap This will increase the size of the parameters $w_1,w_2,...,w_n$
- ✓ Correct

Regularization reduces overfitting by reducing the size of the parameters $w_1, w_2, ... w_n$.