## Selamat! Anda lulus!

Nilai Nilai Pengiriman diterima 100% Terbaru 100%

UNTUK LULUS 80% atau lebih tinggi Pergi ke item berikutnya

- 1. Which of the following can address overfitting?
  - Remove a random set of training examples
  - Select a subset of the more relevant features.
  - ✓ Benar

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

- Apply regularization
- ✓ Bena

Regularization is used to reduce overfitting.

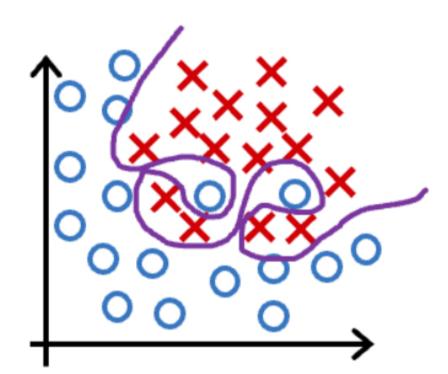
- Collect more training data
- ✓ Benar

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

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

1/1 poin

1/1 poin



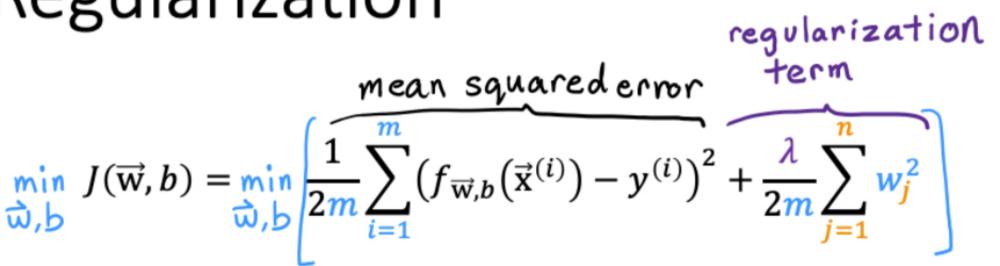
What would you conclude? (Pick one)

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

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

## \* Regularization

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

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

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