# 第一单元

Supervised vs unsupervised learning

有监督学习与无监督学习

1. Which are the two common types of supervised learning? (Choose two) B,C
2. Clustering
3. Regression
4. Classification
5. Which of these is a type of unsupervised learning? C
6. Regression
7. Classification
8. Clustering

# 第二单元

Regression

回归

1. For linear regression, the model is

Which of the following are the inputs, or features, that are fed into the model and with which the model is expected to make a prediction? D

1. and
2. For linear regression, if you find parameters and so that is very close to zero, what can you conclude? C
3. This is never possible -- there must be a bug in the code.
4. The selected values of the parameters and cause the algorithm to fit the training set really poorly.
5. The selected values of the parameters and cause the algorithm to fit the training set really well.

# 第三单元

Train the model with gradient descent

使用梯度下降法训练模型

1. Gradient descent is an algorithm for finding values of parameters w and b that minimize the cost function J. C

When is a negative number (less than zero), what happens to after one update step?

1. stays the same
2. decreases
3. increases.
4. It is not possible to tell if will increase or decrease.
5. For linear regression, what is the update step for parameter b? A