**Machine Learning Algorithm**

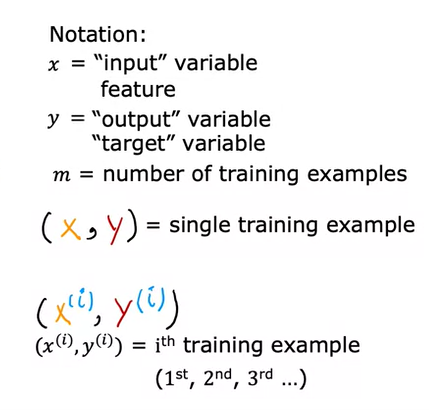
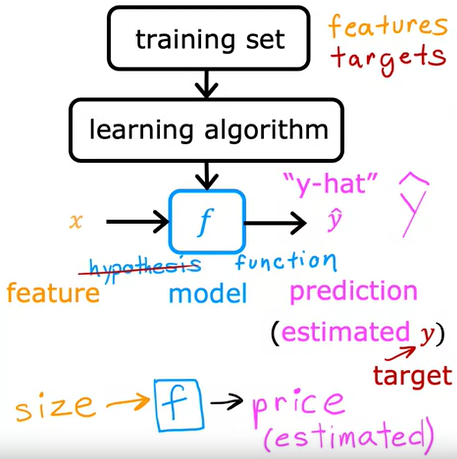
1. Supervised learning

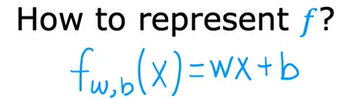
More commonly .

Input to output **Labled.**

„learn from being given „right answers” “.

Data has “right” answers.

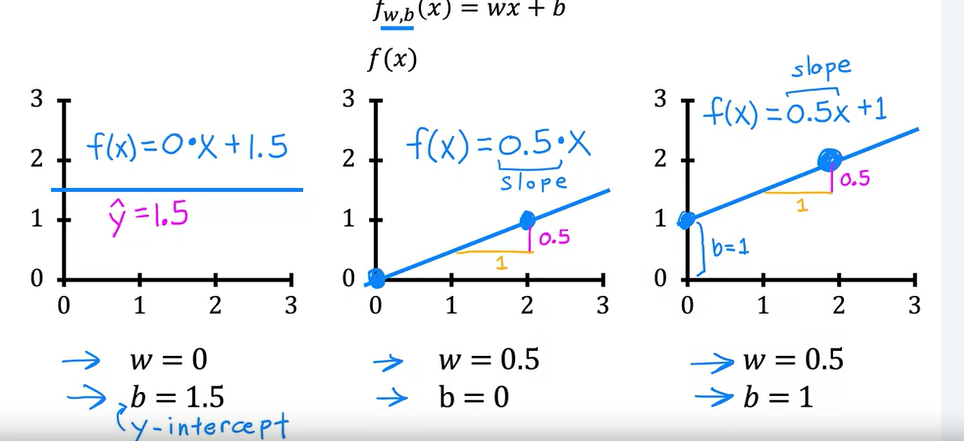
1. Regression (predict a number)
   1. Predicts a number  
       



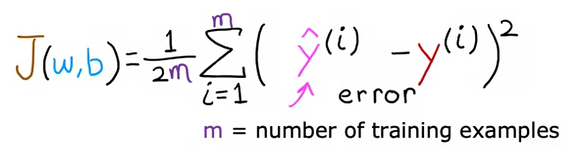
f is a linear function – means only has one variable (**univariate linear regression**)

**w = slope**

**b = interecept**

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**Cost function**

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**Goal:** minimize J(w,b)

1. Classification
   1. predicts categories
2. Unsupervised learning

**No labels**

Find pattern / interesting informations in unlabeled data