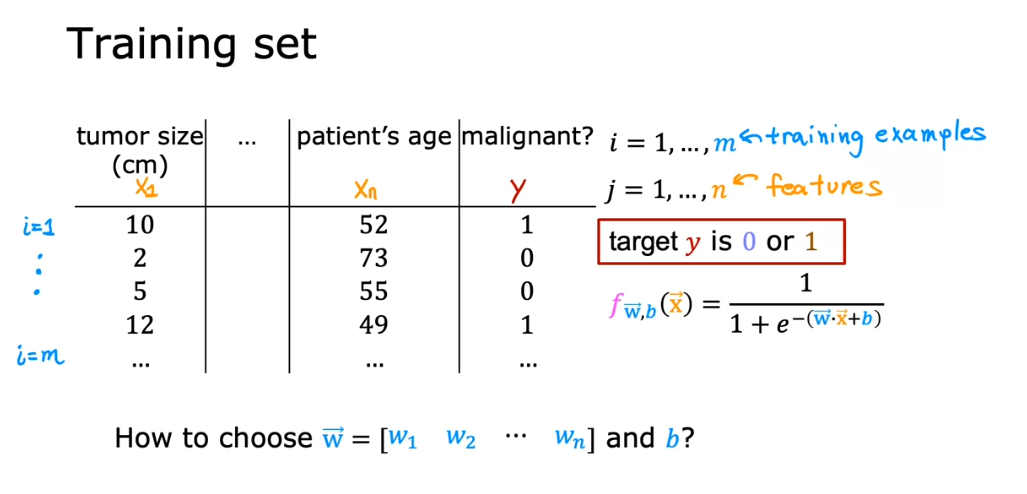
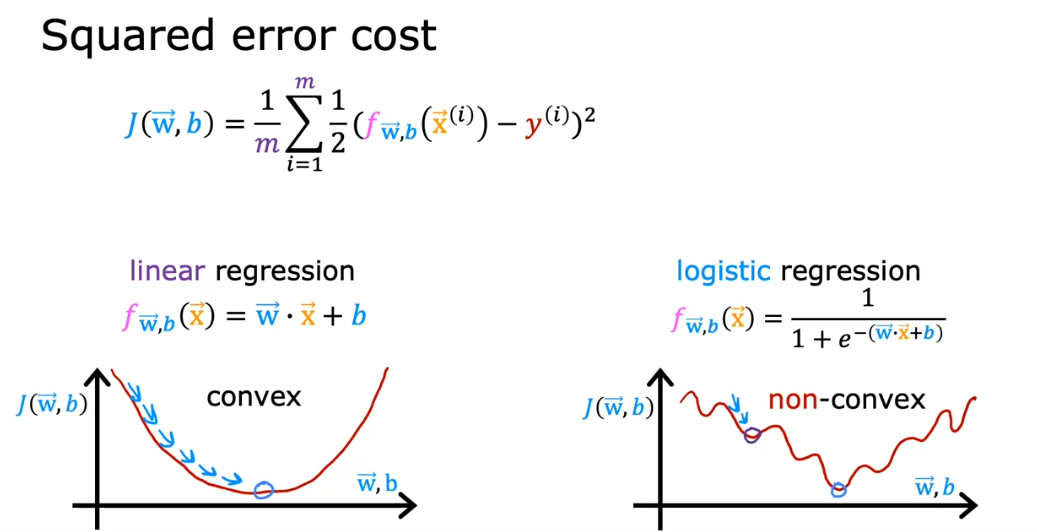
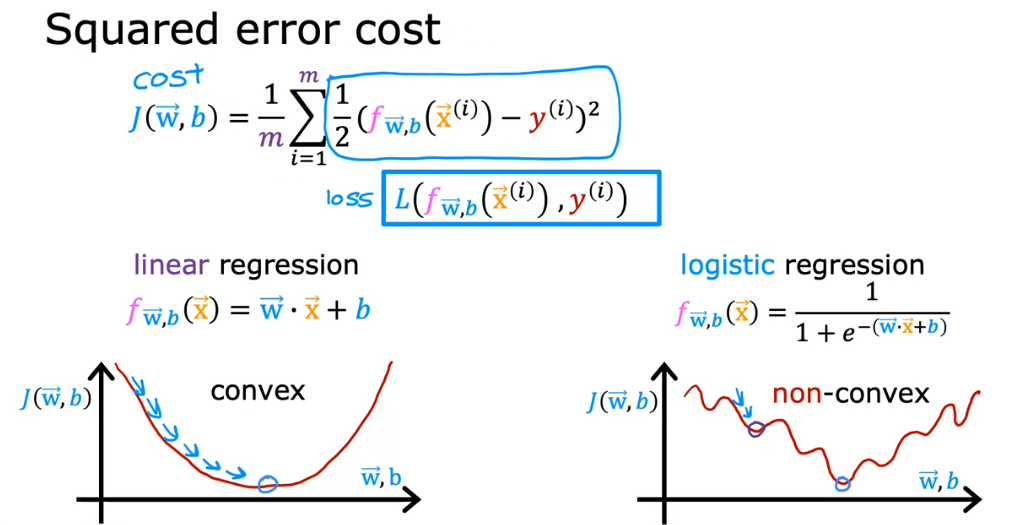
# Cost function for logistic regression

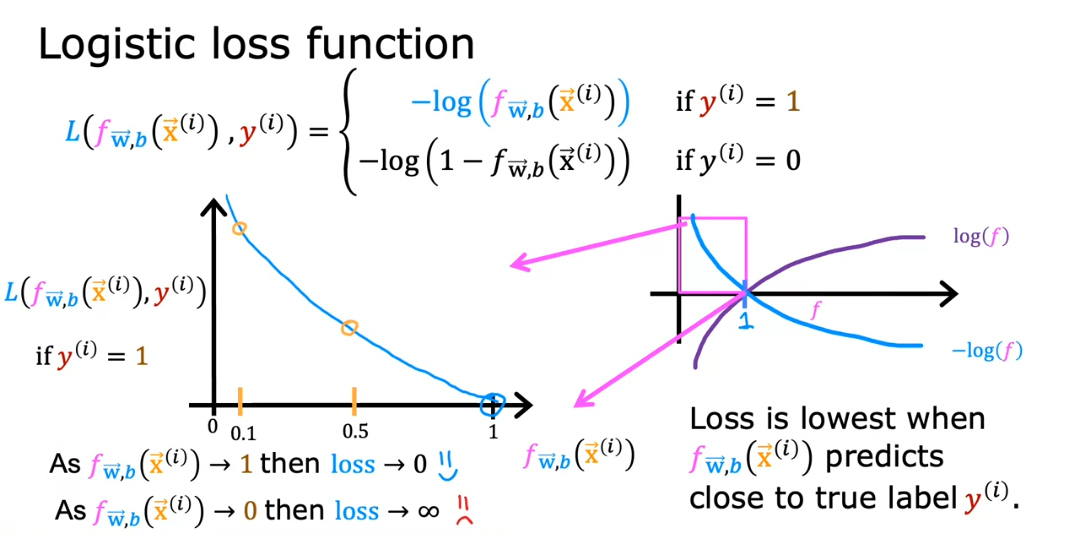




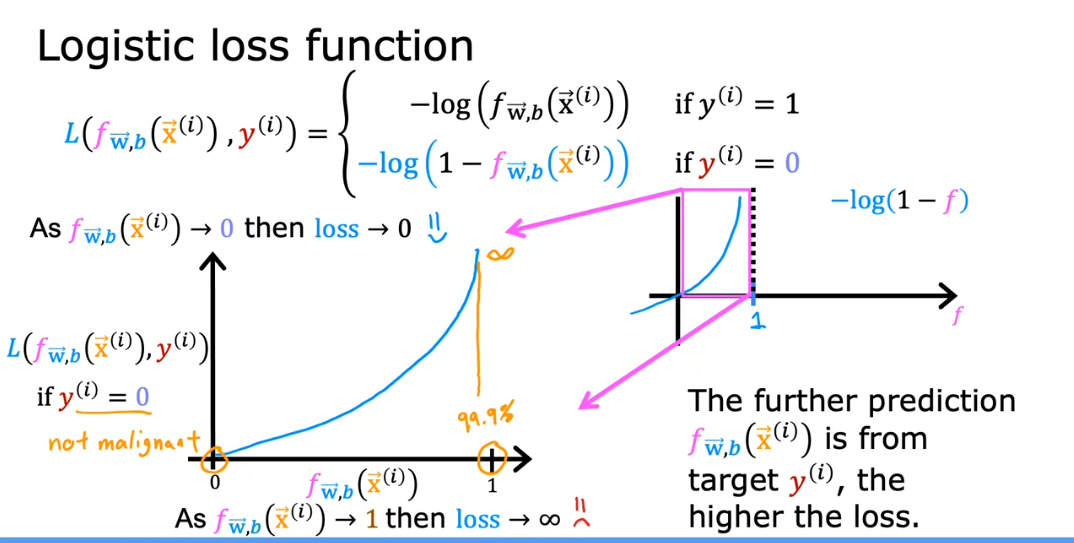
* Our squared error cost function is not appropriate for our logistic regression

Redefining the equation of our cost function

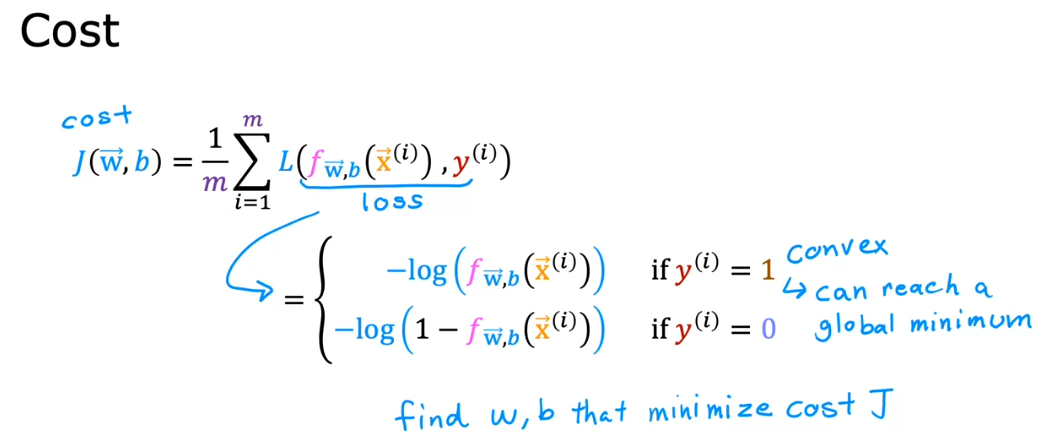


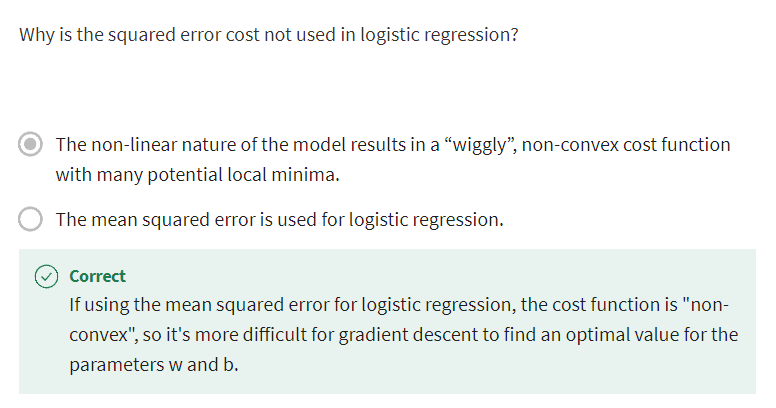


* For the first function (if y(i) = 1)
* Not applicable for y(i) = 0 since it is resulting to infinity



* For the second function (y(i) = 0)
* Not applicable for y(i) = 1 since it is resulting to infinity





# Simplified Cost Function

