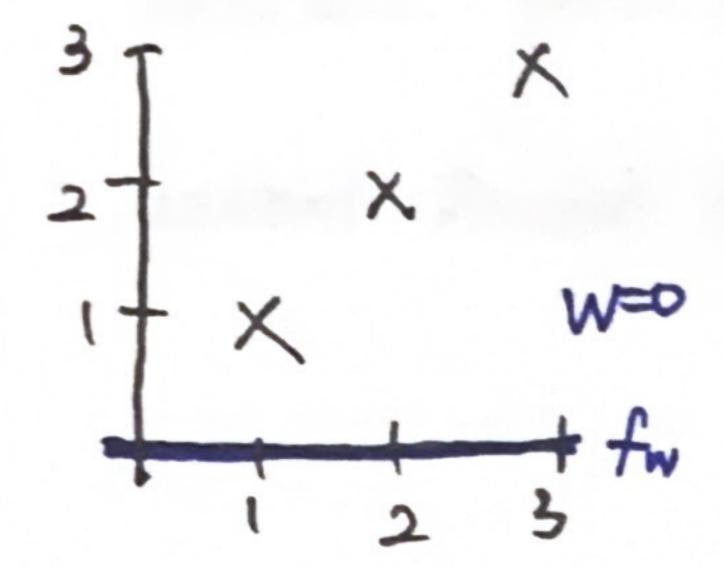
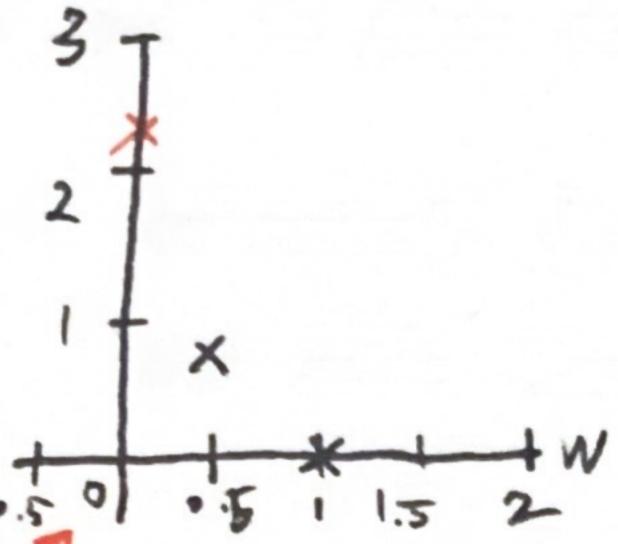


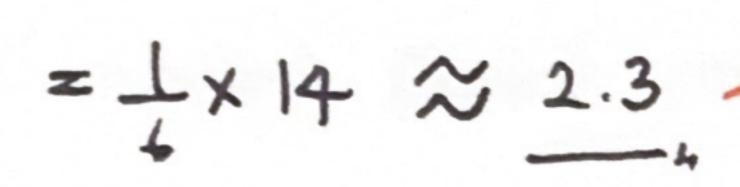
m) fw(x)



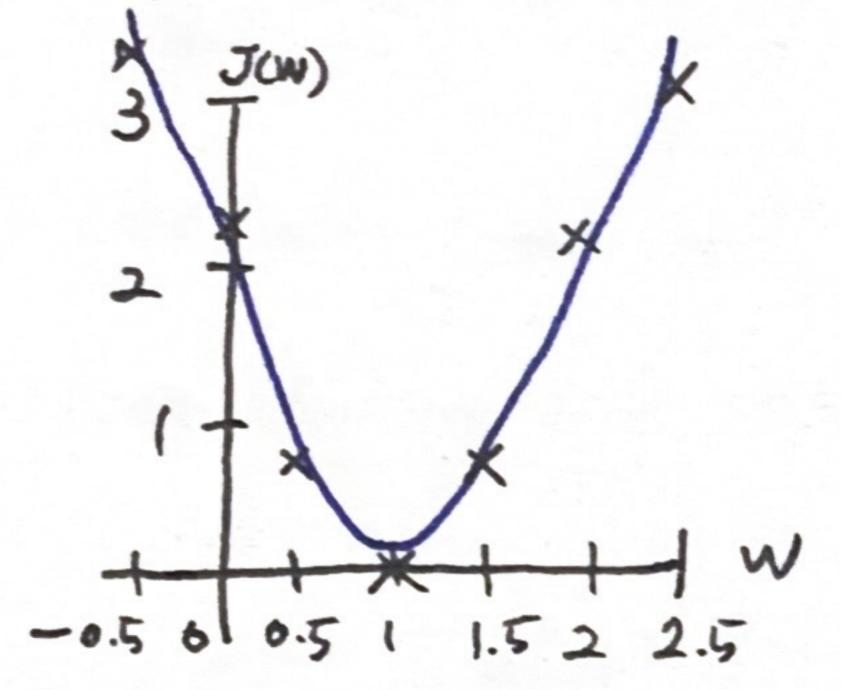
J(w)



 $J(0) = \frac{1}{2m} \left[(0-1)^2 + (0-2)^2 + (0-3)^2 \right]$



: Graph of cost function J(W)



(Recap)

- O Depending on chosen W value,
 graph shape of model fu(x) changes.
- Diring the W value that makes the result of cost function "minimum"

 = Finding the linear graph that best fits the training set

W= 1 >> minimum J(w)

: Goal of Linear regression

· minimize J (w,b)
w,b

=> choosing w that

makes cost function result as small as possible would give us a good model