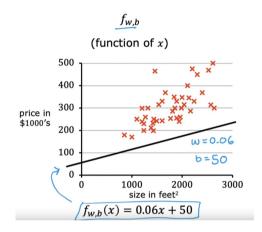
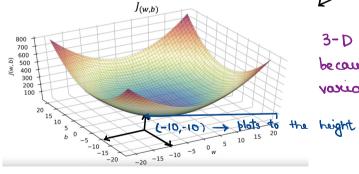
Looking at the cost function data from a visual penspective.

In this case, we will use w, b as parameters.



- Suppose, we have this data model.

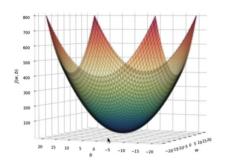
Plotting the cost function J(w)



3-D surface plot because of two variables.

## 3D surface plot

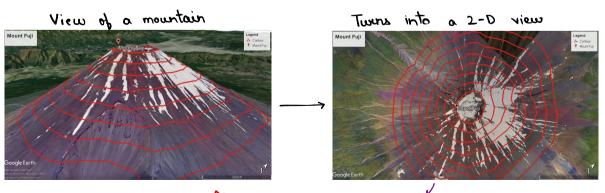
J(w,b) [You can rotate this figure]



- Graph looks somewhat like this from vertical perspective.

## CONTOUR PLOTTING

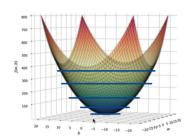
Contours can be used to view 3-D graphs in a 2-D way. They are basically horizontal slices in a topographical map.



Each incular slice wheresents regions of the same height

## 3D surface plot

J(w, b)
[You can rotate this figure]



To get a contour map, just slice off surfaces of the 3-D graph.

