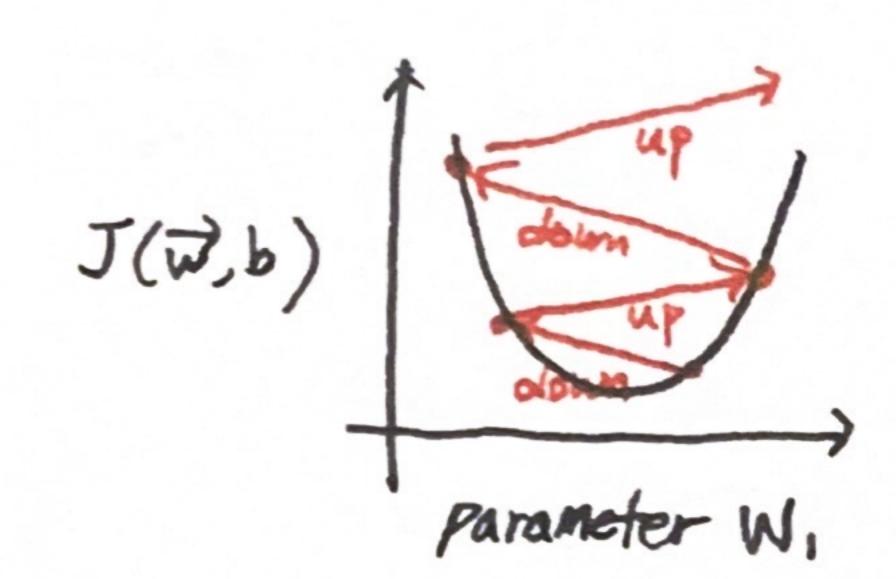
## orreretttttttt

(Choosing learning note)

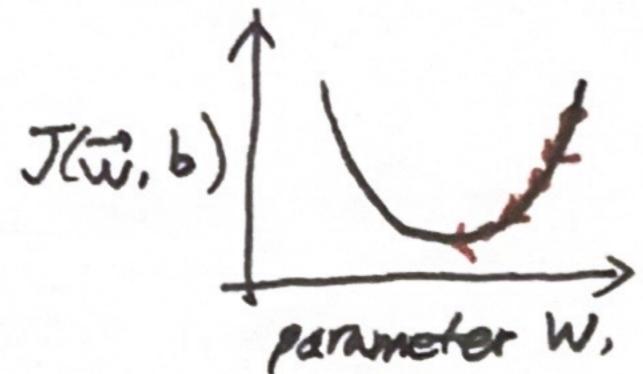
- Identify problem with gradient descent

cost sometimes goes "up" and sometimes goes down" # Heration

reason #1: Too large value of learning nate



To fix this problem, Use smaller learning note



case #2: cost consistently increases #iteation

reason#2: Bug on a code

ex) gradient descent code: W:= W + dd

\* Debugging tip: set very small a and see if that causes the cost to decrease on every iteration

denivate

Trade-off => if, even with very small number of alpha, I (cost) doesn't decrease on every Hoution that usually means there's a bug somowhere in my code.

gradient descent can take a lot of Herations to annenge

\* Setting value of x tip: set a range of values for X ex)\_\_ 0.001

rapidly and ansistently"