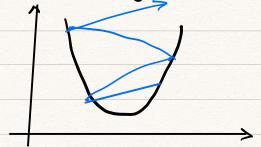
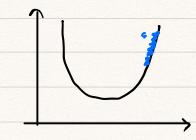
1-1. Large learning rate = overshooting

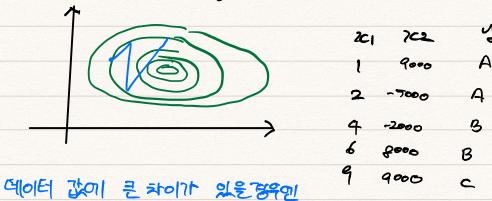


1-2. Small learning rate: betos los lang, stops at leal winimum



=> Try several learning rates

2. Data (X) preprocessing for gradient descent



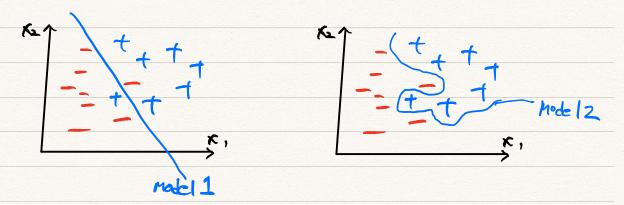
'normalize' st 3 257 25

$$\mathcal{K}_{5}' = \frac{\mathcal{K}_{5} - \mu_{5}}{G_{5}}$$

7_56d[:,0] = (76[:,0] -76[:,0].Mean()) / X[:,0].std()

* Overficting

· 터스트에선 월 맞그나, 실제에선 잘 안 만든 모델



* Made | 2는 저 상황에진 더 잘 맞지만 생체 일반적인 상황에서는 잘 한 맛는 모델.

= Overfitting.

Lotraining obtatt the 44 39 429

forcares 43 30x18

Regularization

@ Repularization
그 너무 특성 상황이 안 맛게 환경하지 않다.
- " 792121 252 8724.
^ /
/
L= HZD (S(WX+1b), L) + NZW
regularization screntth
12 ref = 0.00 x tf, reduce_sam(tf.spore(w) 25