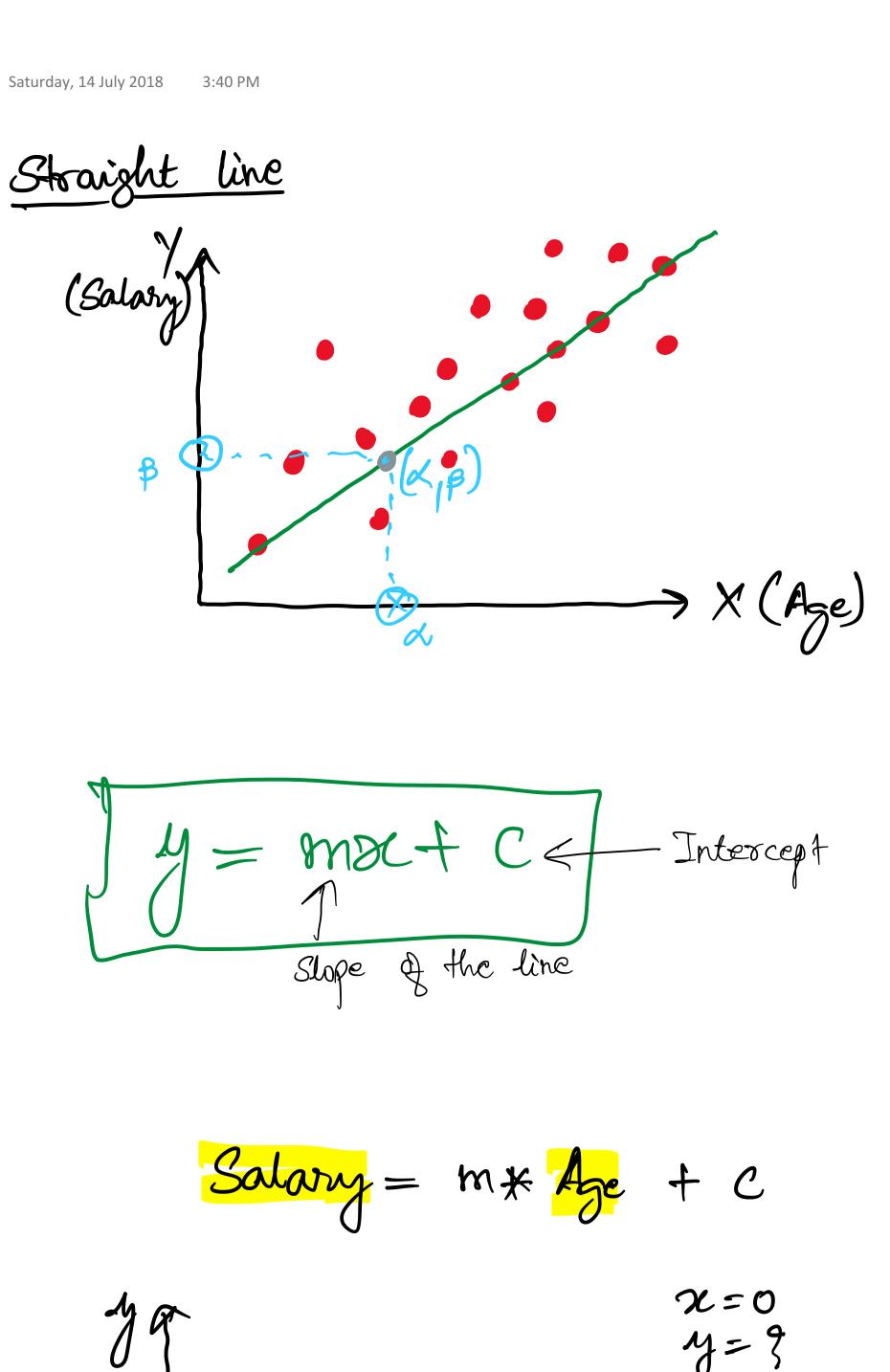
Saturday, 14 July 2018 3:40 PM



$$y = 0$$

$$y = 0$$

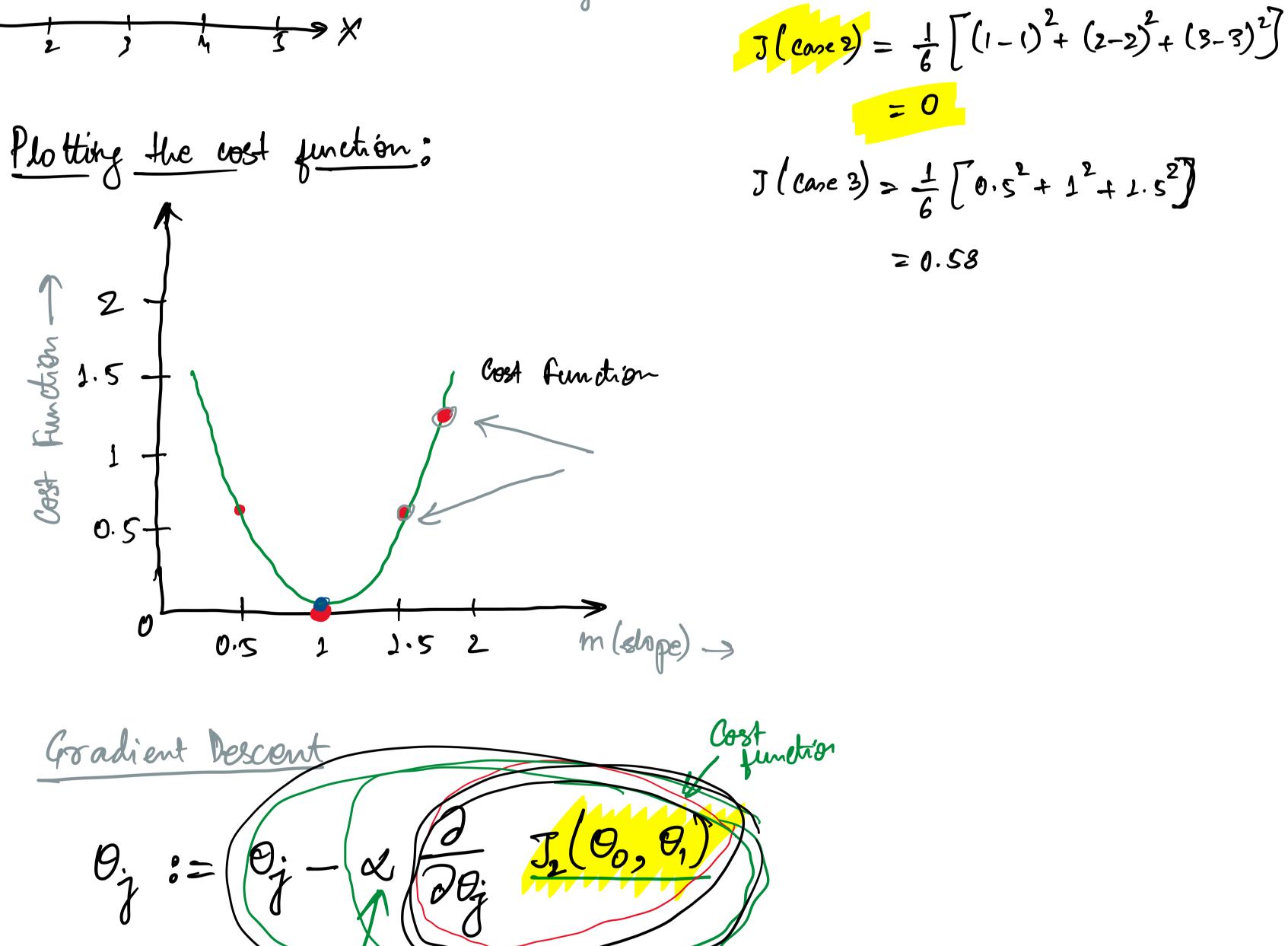
$$y = 0 + 0$$

$$y = 0 + 0$$

$$h(x) = 0 + 0$$

$$h(x) = 0 + 0$$

m= 0.5



case II (m=1)

 $x = 3 \quad y = 3$

4=1

y=2

 $J(cone I) = \frac{1}{2\times3} \left[(1-0.5)^2 + (2-1)^2 + (3-1.5)^2 \right]$

 $=\frac{1}{6}(0.25+1+2.25)$

 $=\frac{1}{6}(3.5)=0.58$

= 0.58

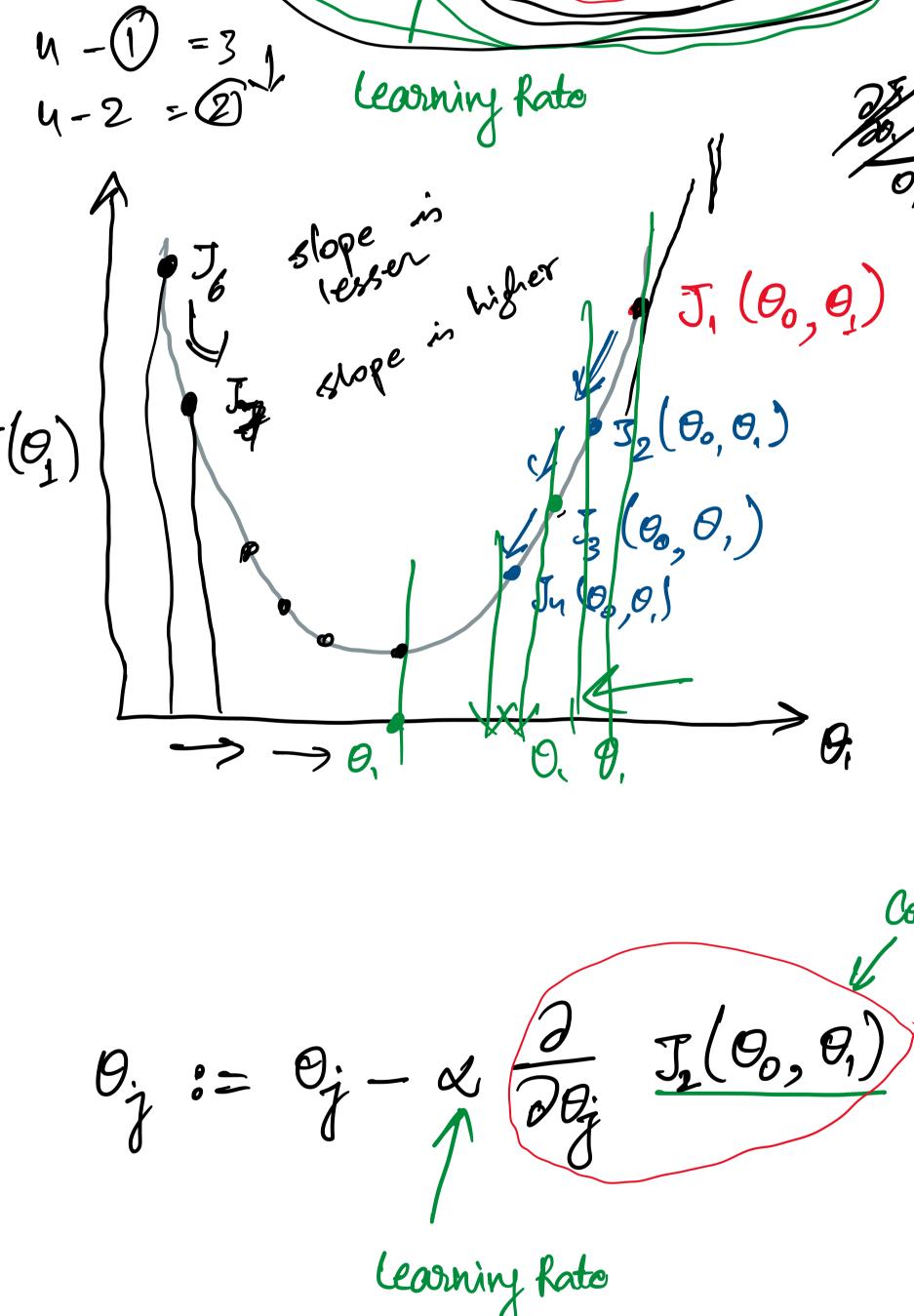
<u>Case I</u> (m = 0.5)

96= 1

Case III (m=1.5)

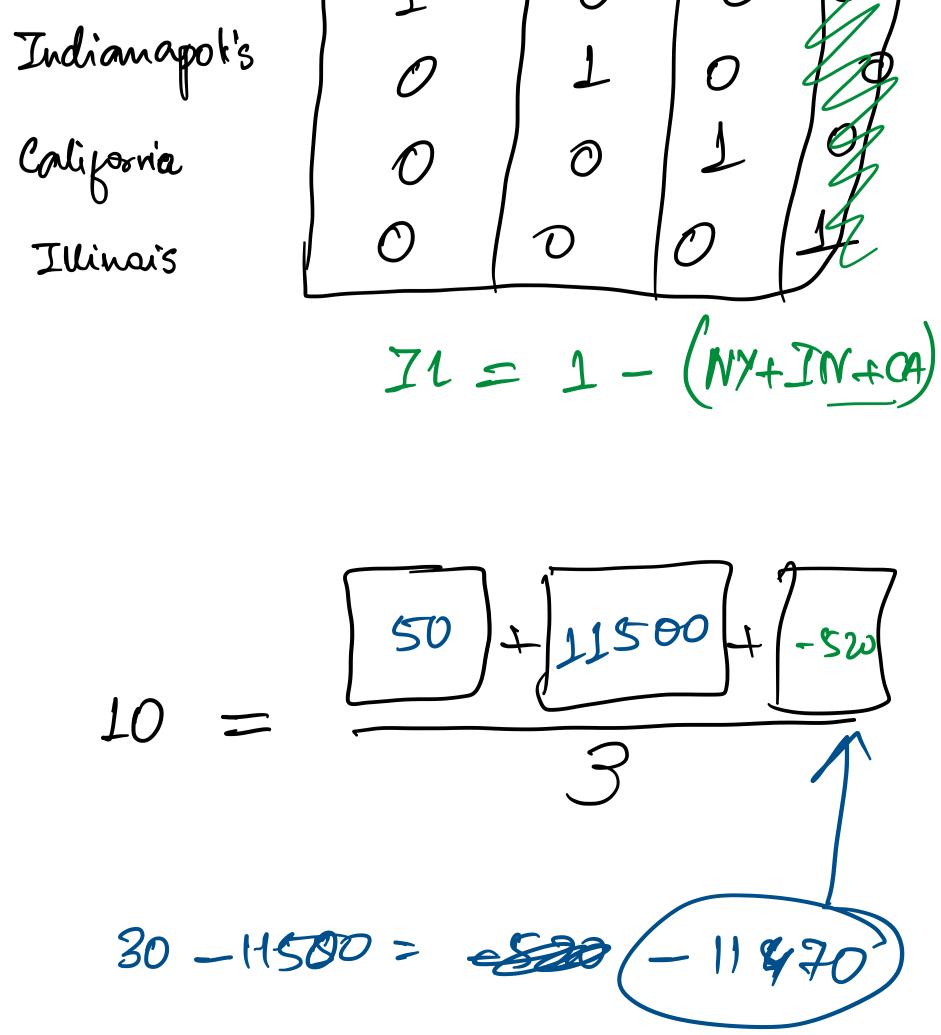
y=1.5

y= 3 y= 4.5



$$\theta_{i} := \theta_{i} - \lambda \frac{\partial}{\partial \theta_{i}} \frac{1}{2m} \sum_{i=1}^{m} \left(h_{0}(x_{i}) - y_{i} \right)^{2}$$

 $\theta_{0} = \theta_{0} - \omega \frac{\partial}{\partial \theta_{0}} = \frac{1}{2m} \sum_{i=1}^{m} \left(h_{0}(x_{i}) - y_{i} \right)^{2} \left(h_{0}(x_{i}) - y_{i} \right)^{2}$



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