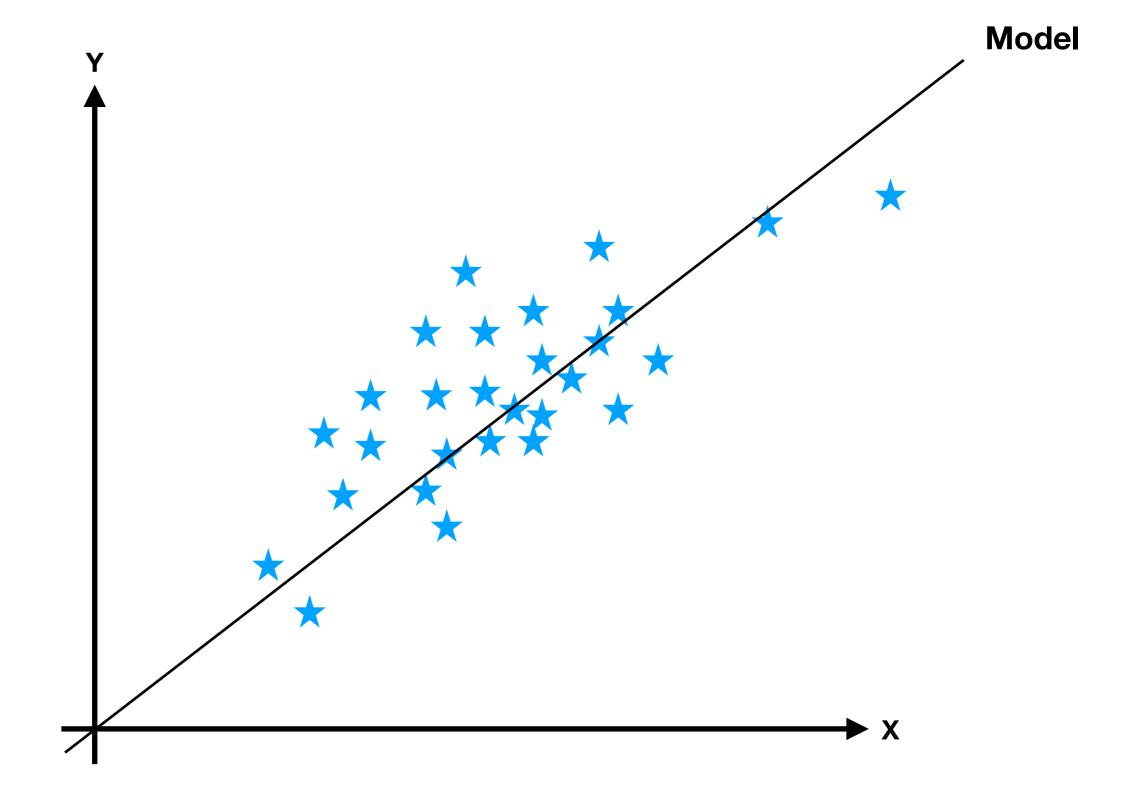
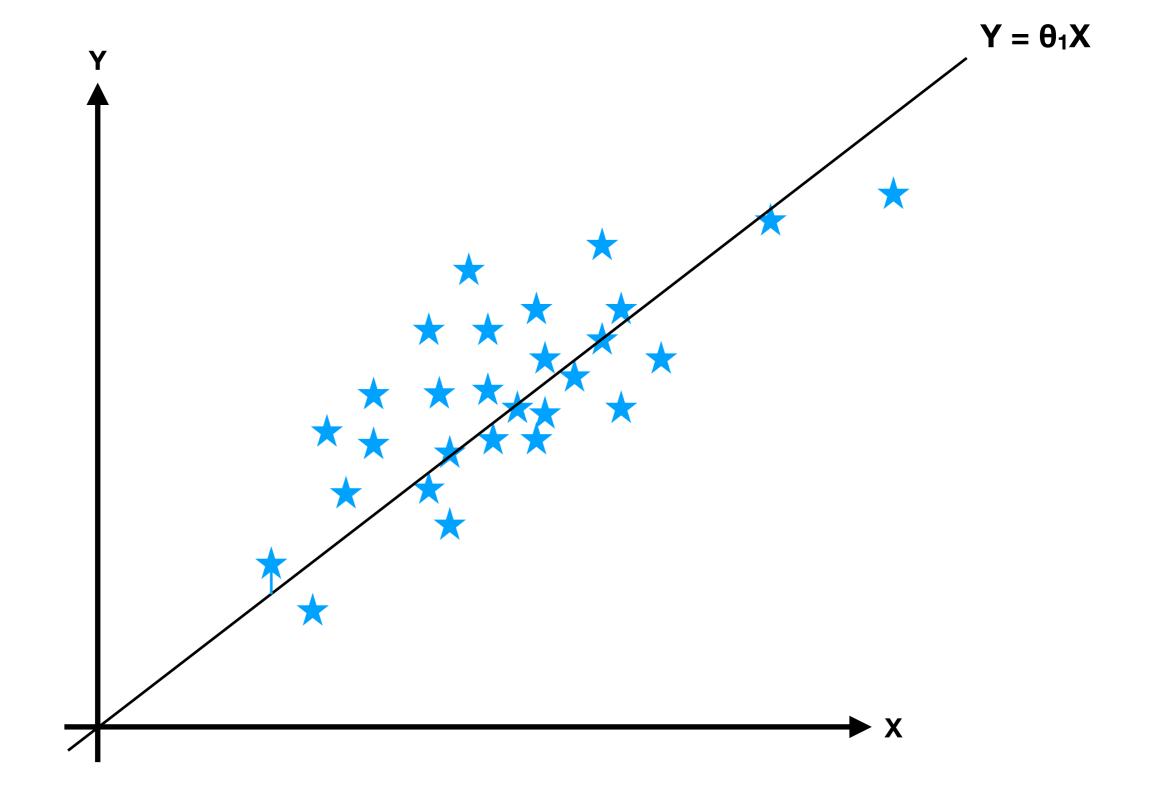
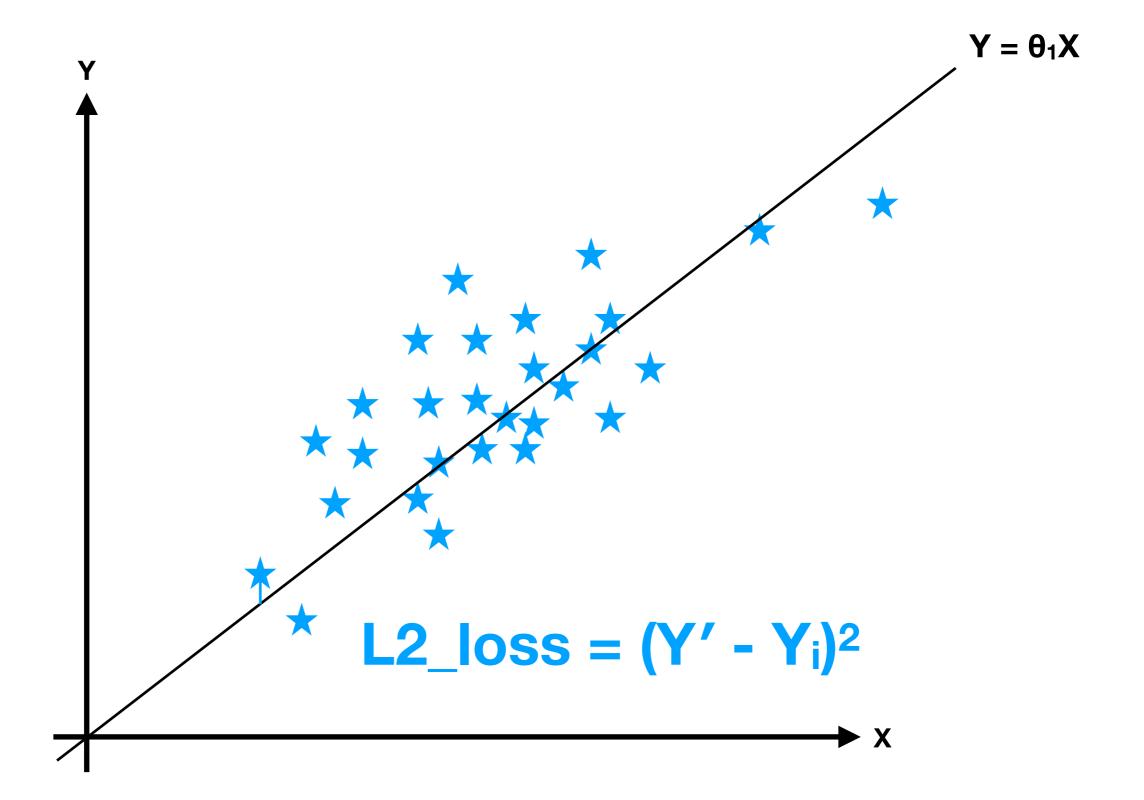
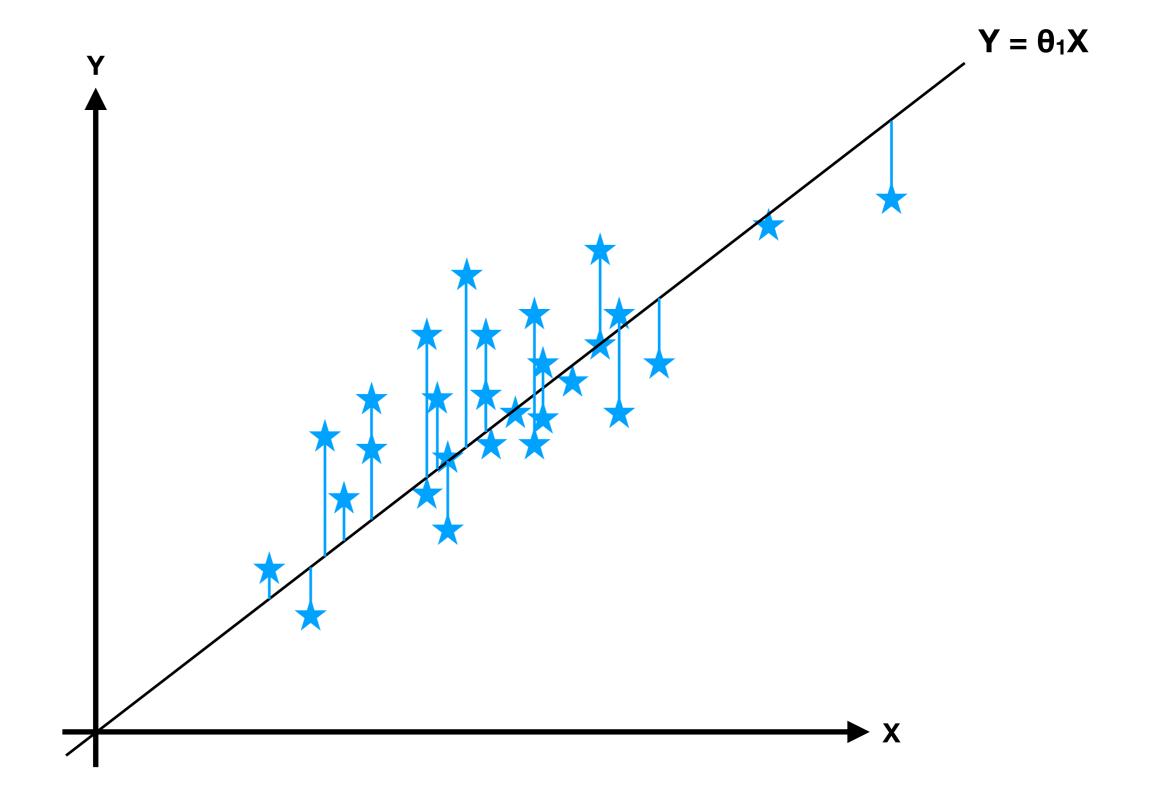
SC201

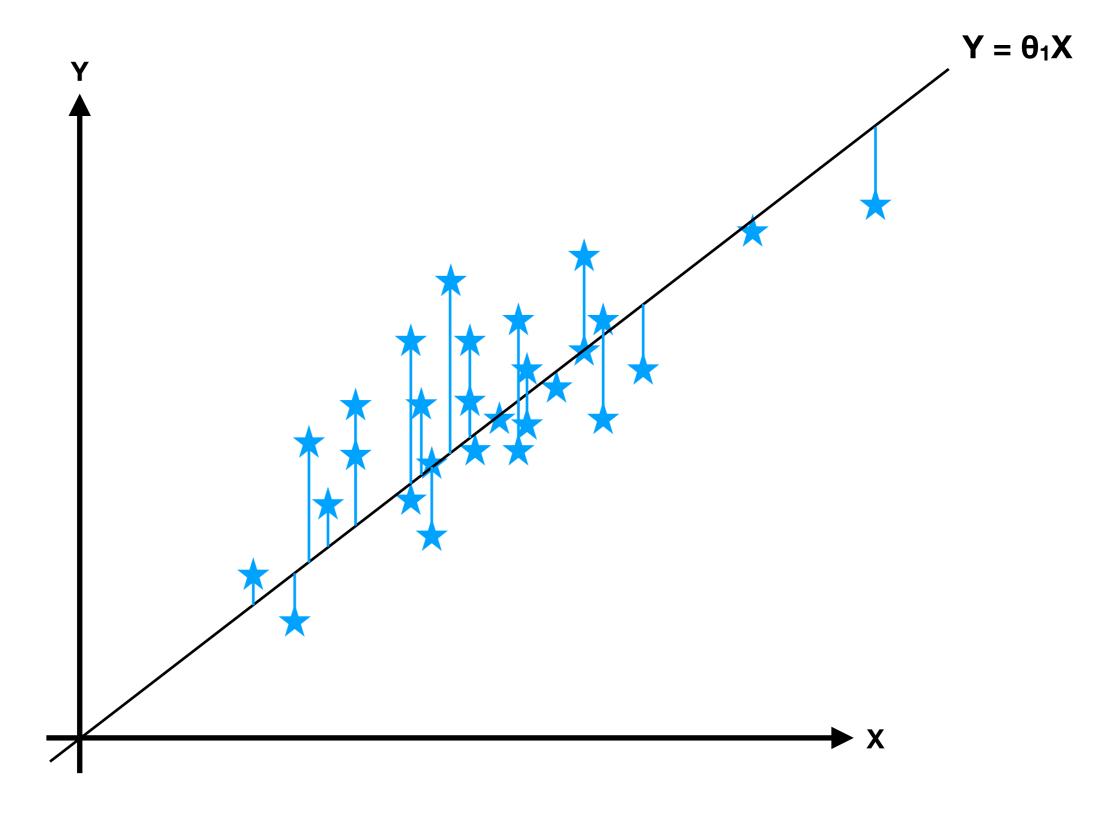
Lecture 2



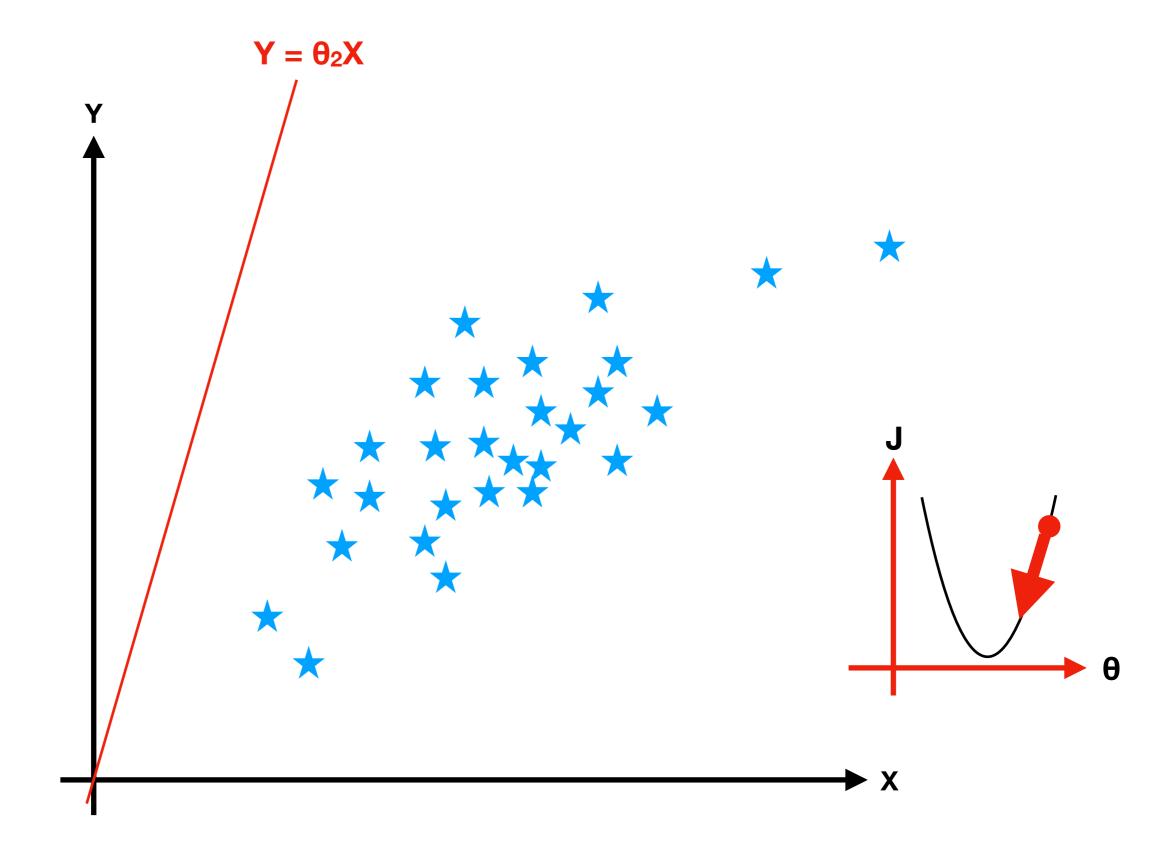


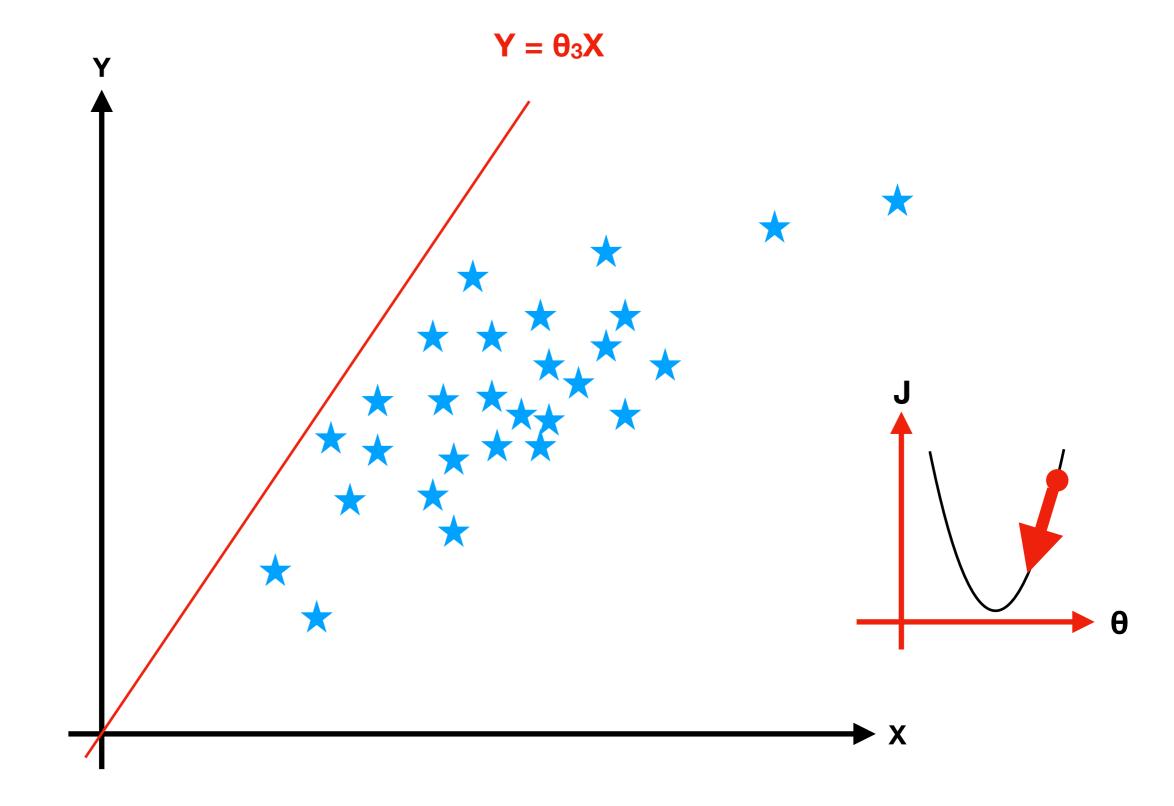


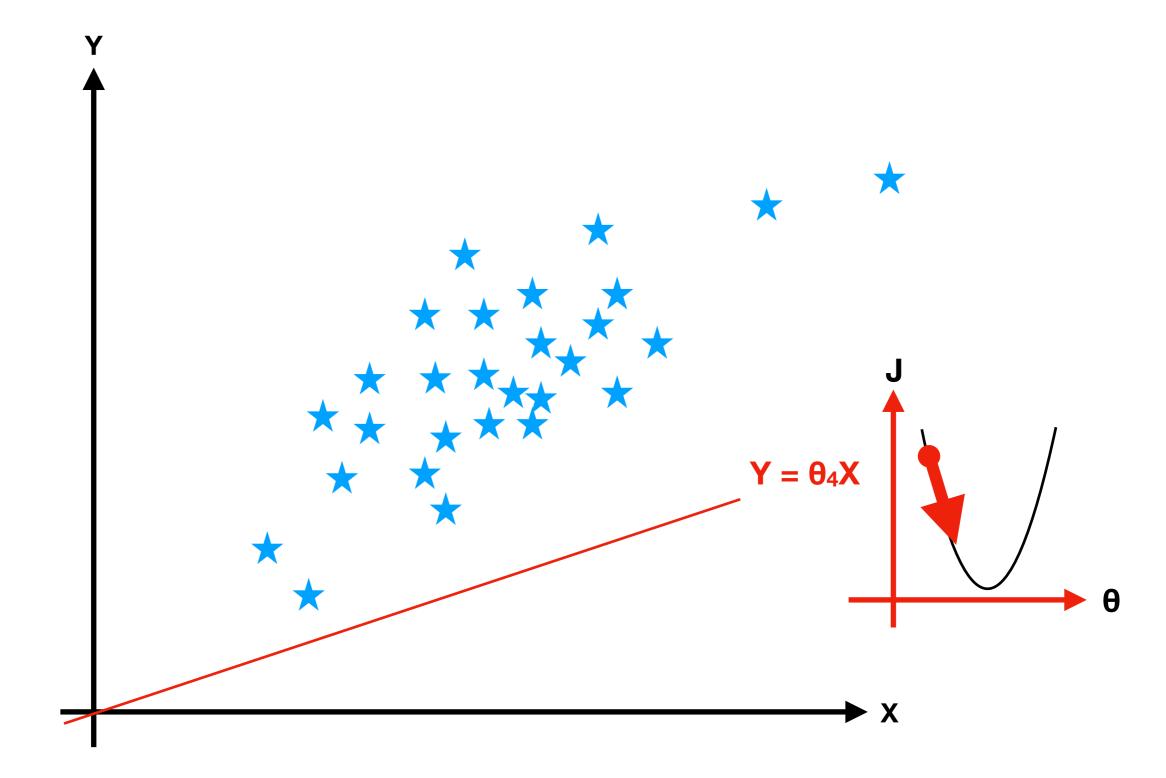


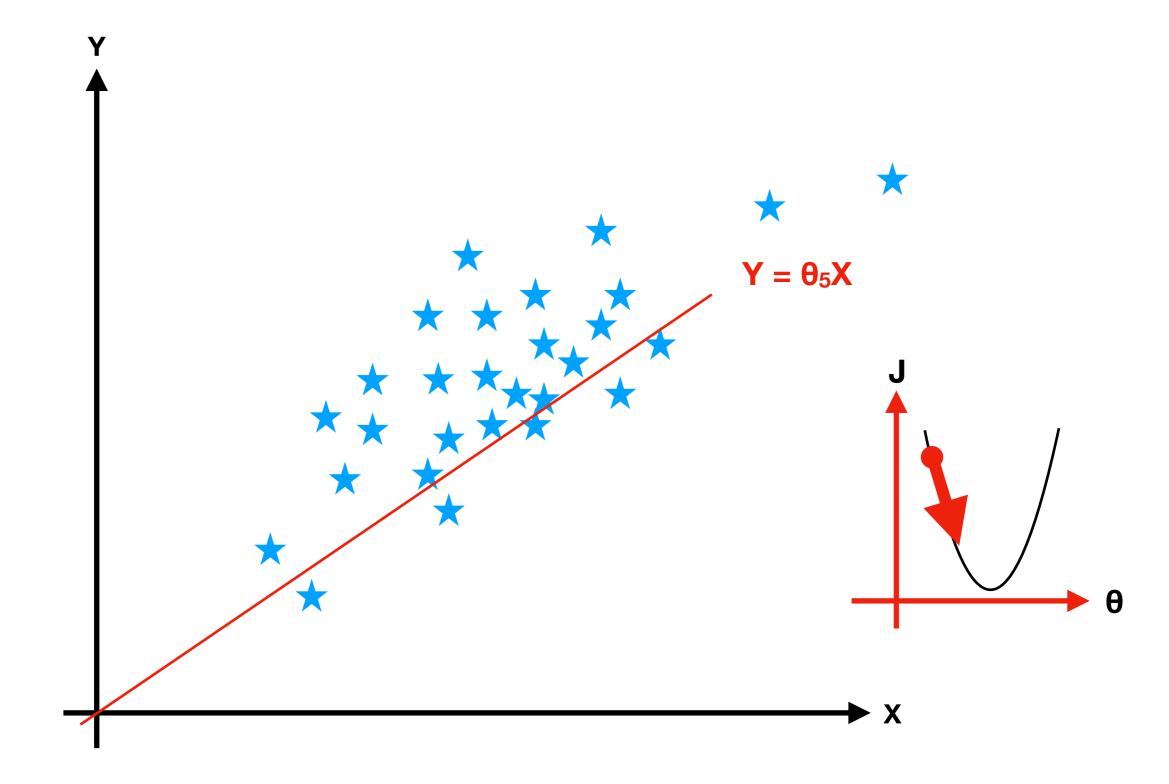


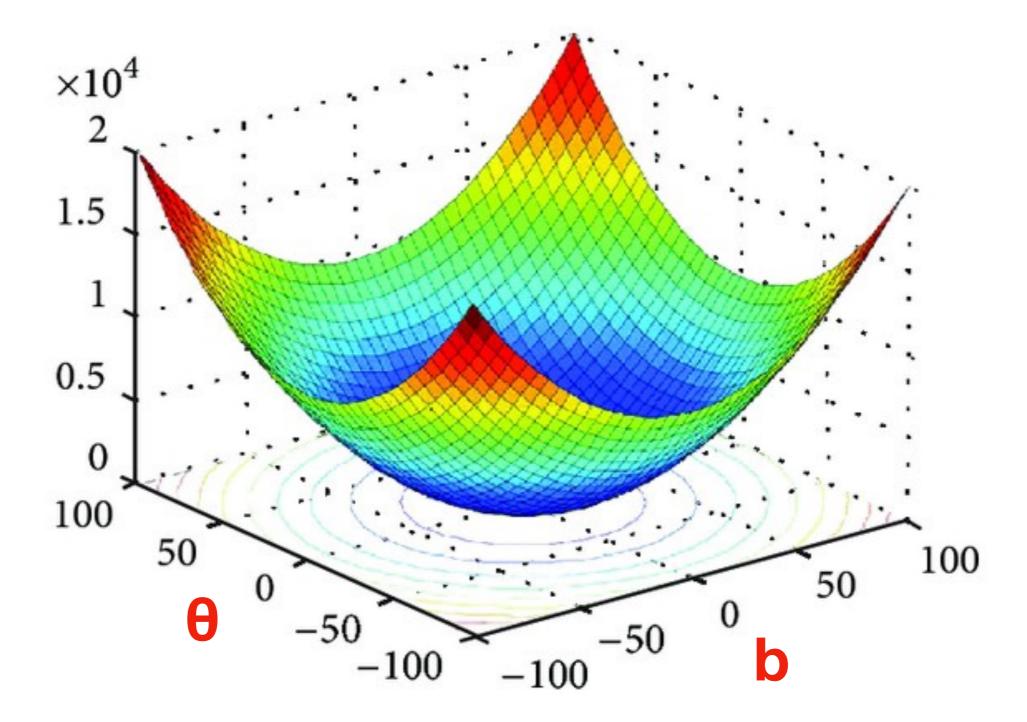
$$J = \Sigma (Y' - Y_i)^2 / 2m$$

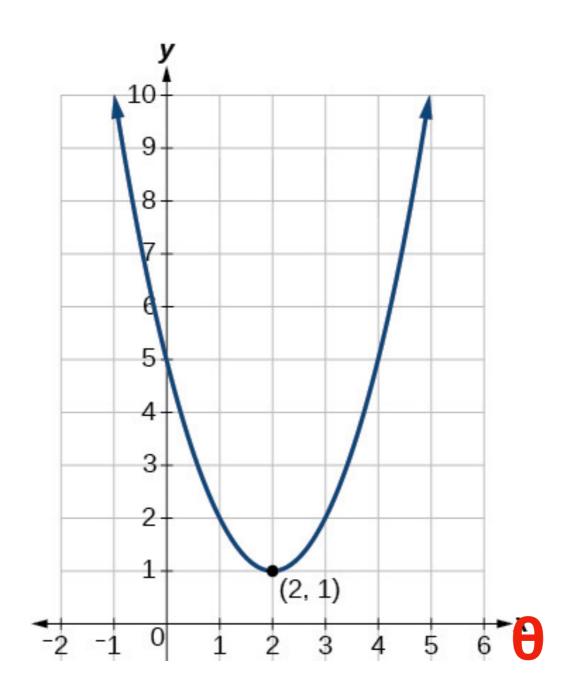


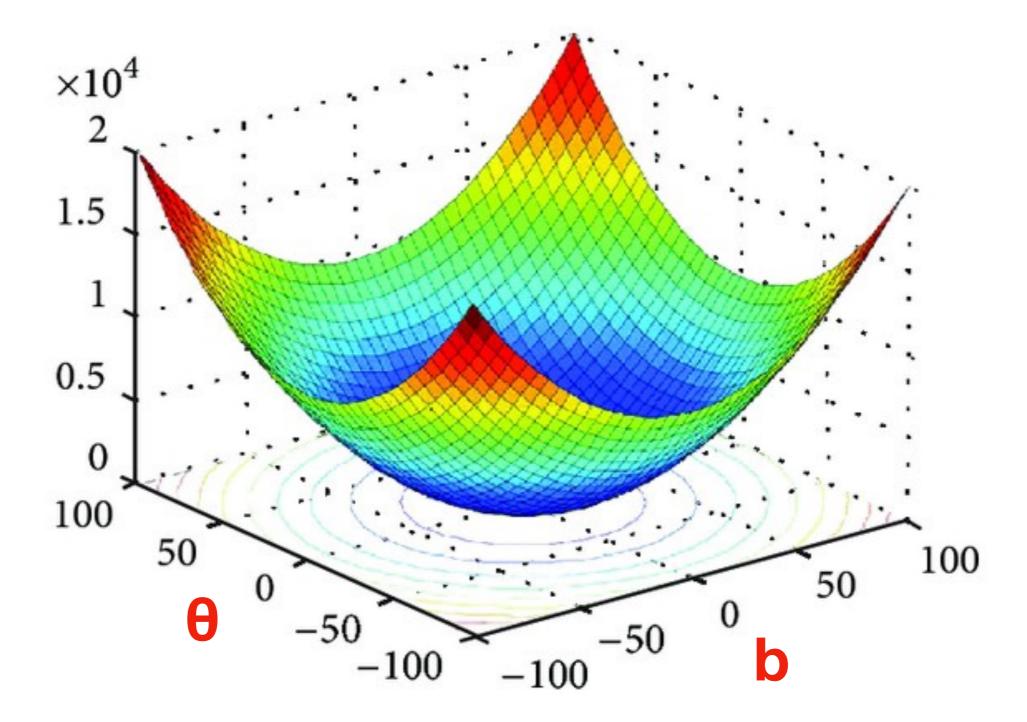


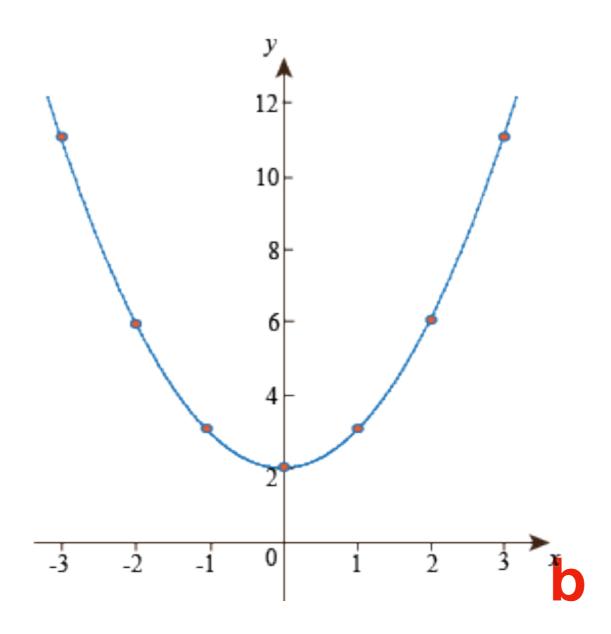




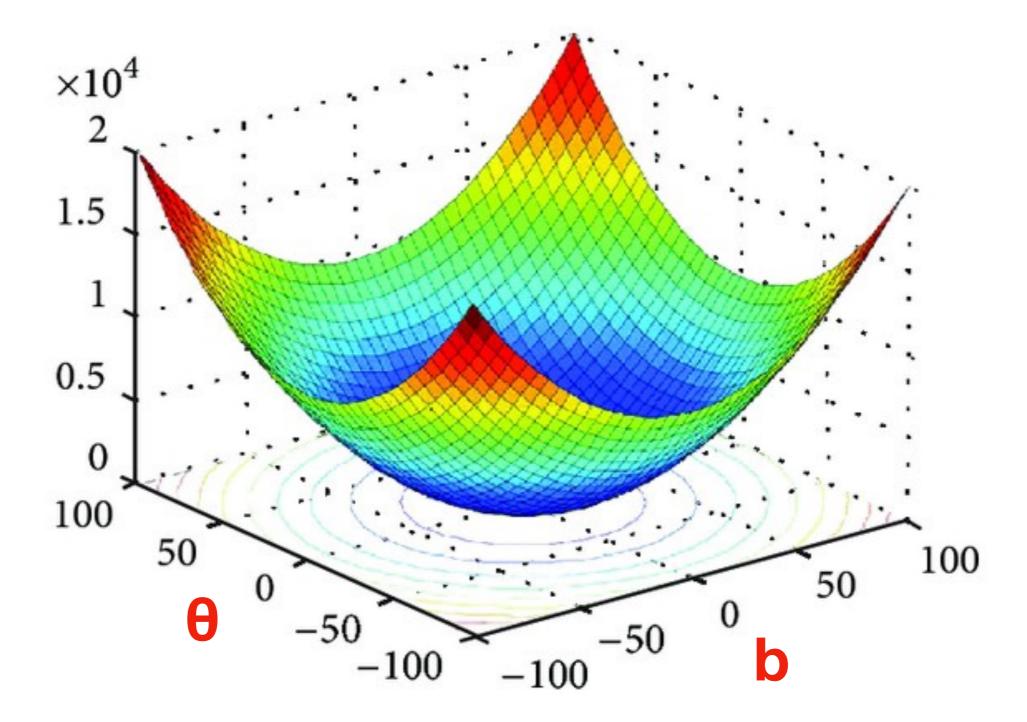


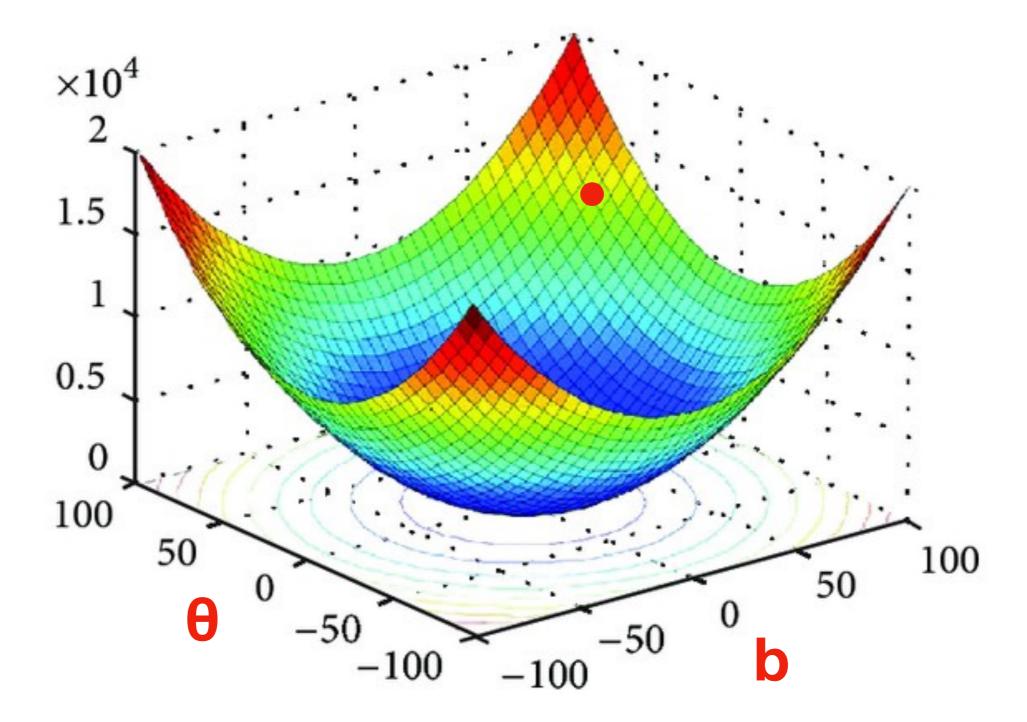


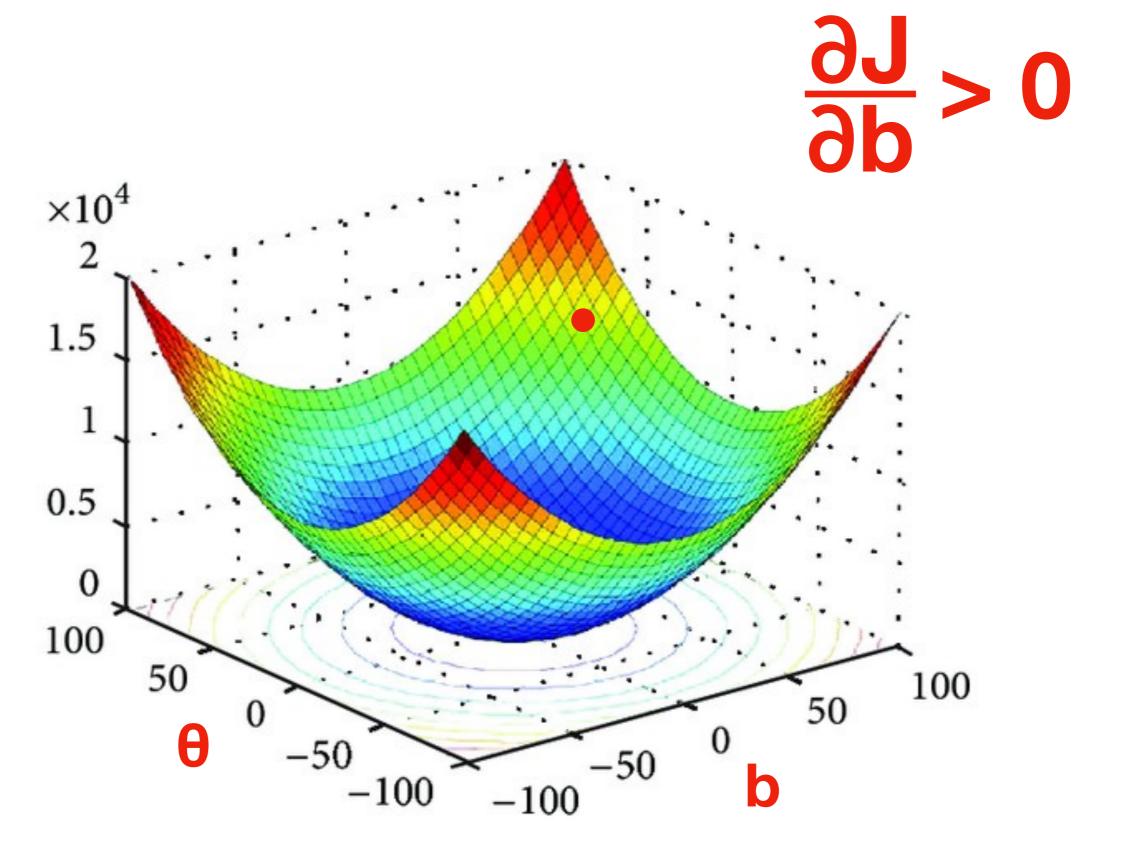


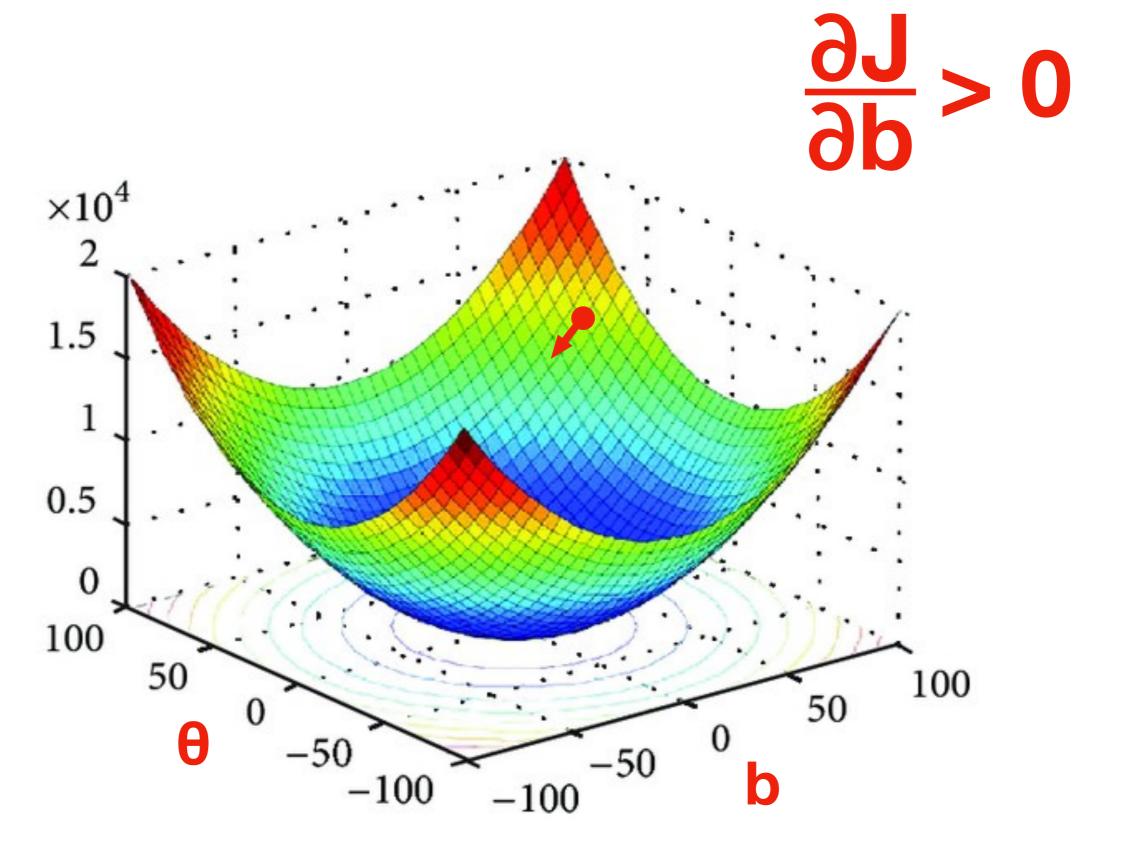


Update 0 and b

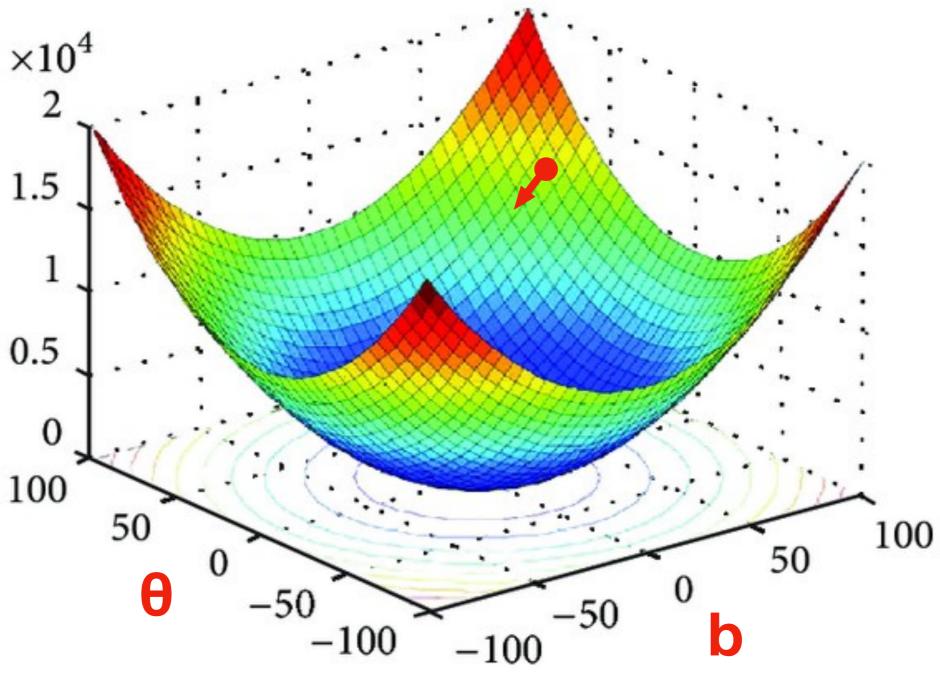




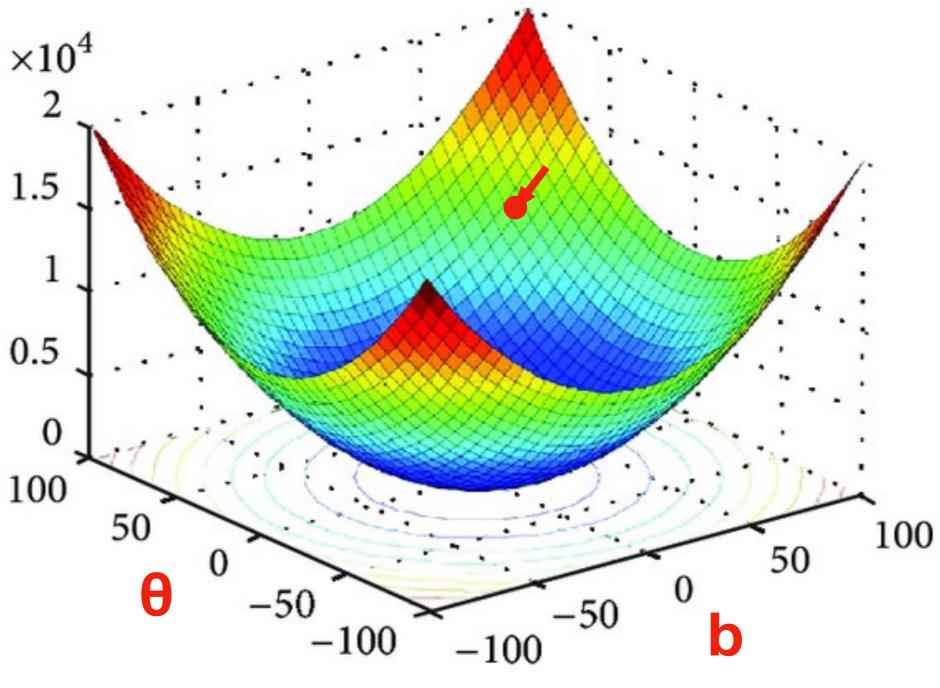


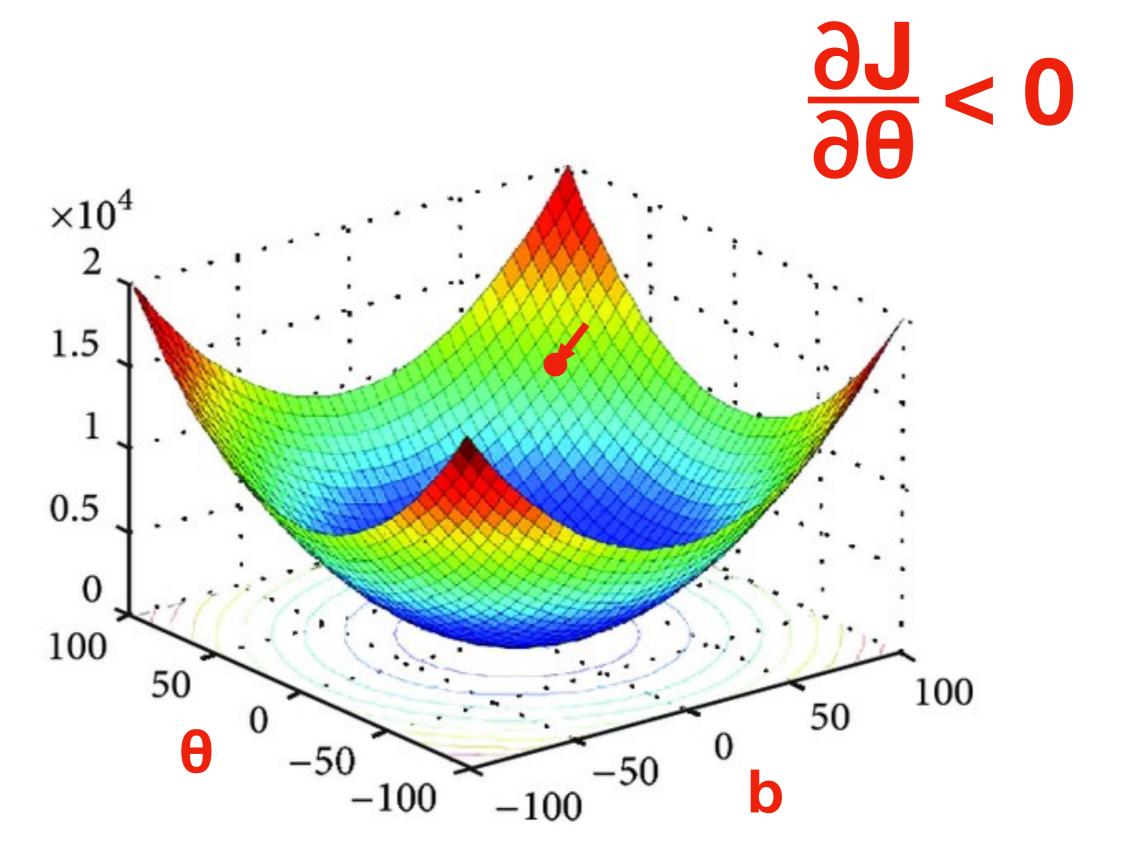


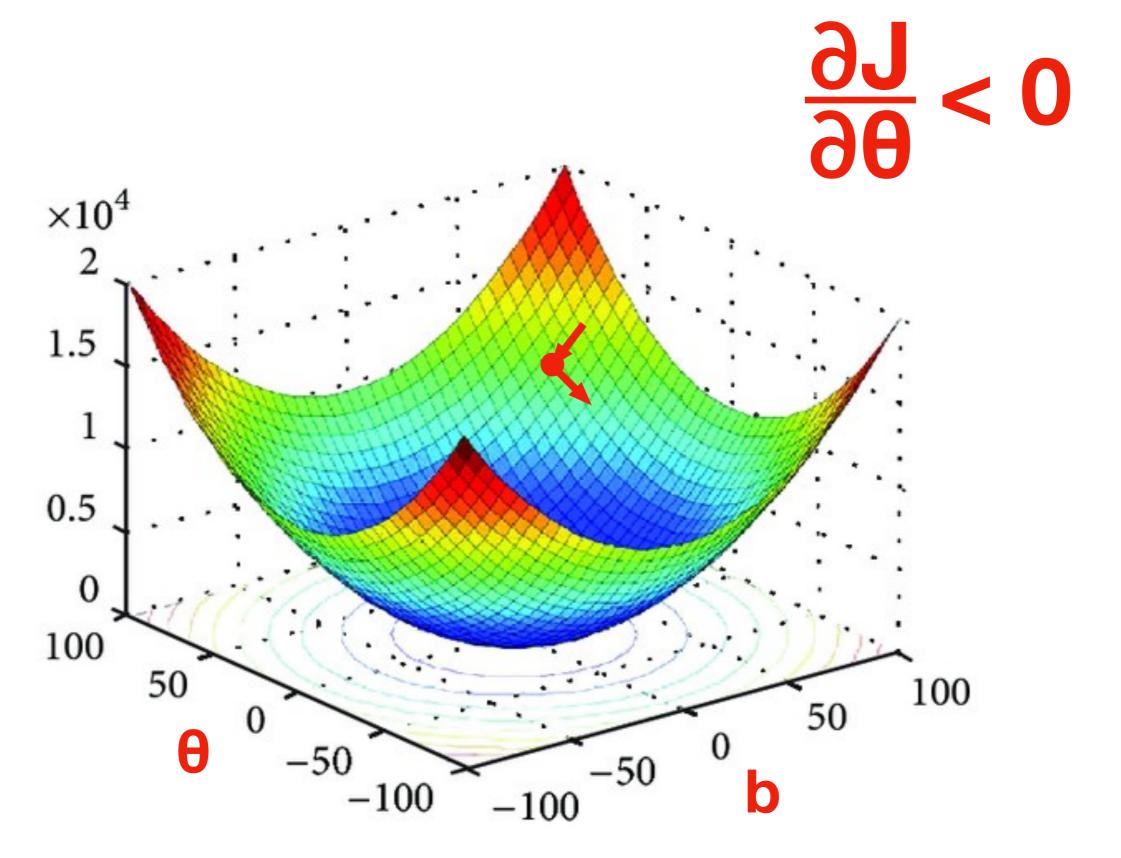
$b=b-\alpha \frac{\partial b}{\partial J}$



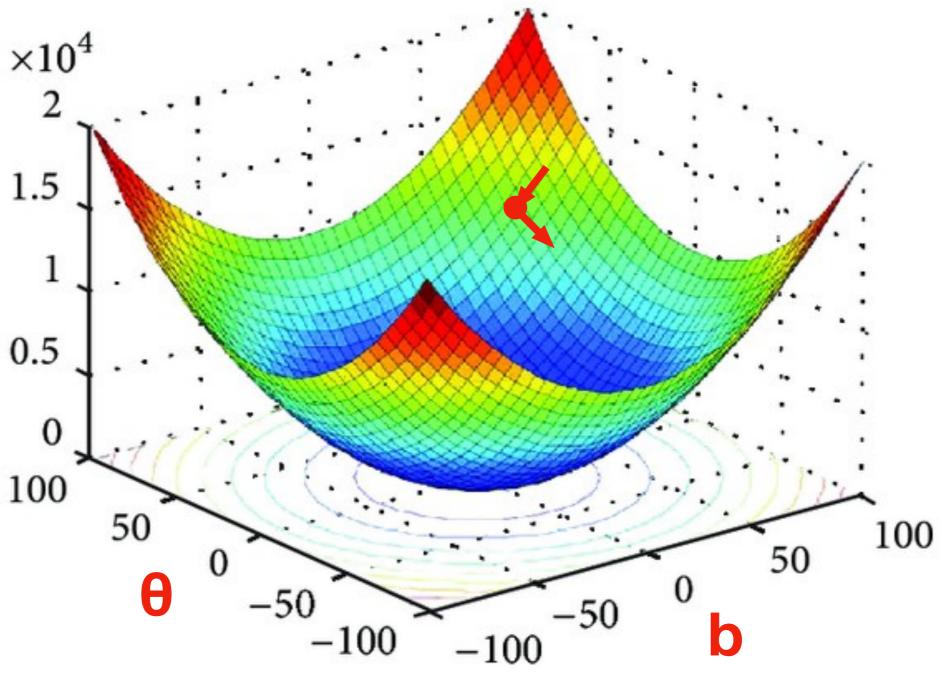
$b=b-\alpha \frac{\partial b}{\partial J}$



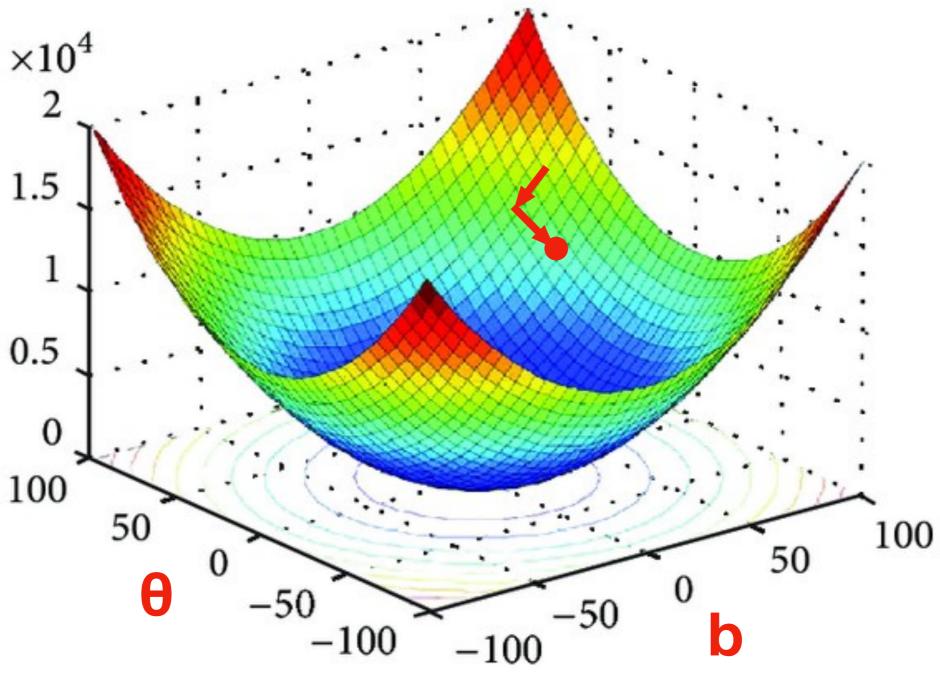


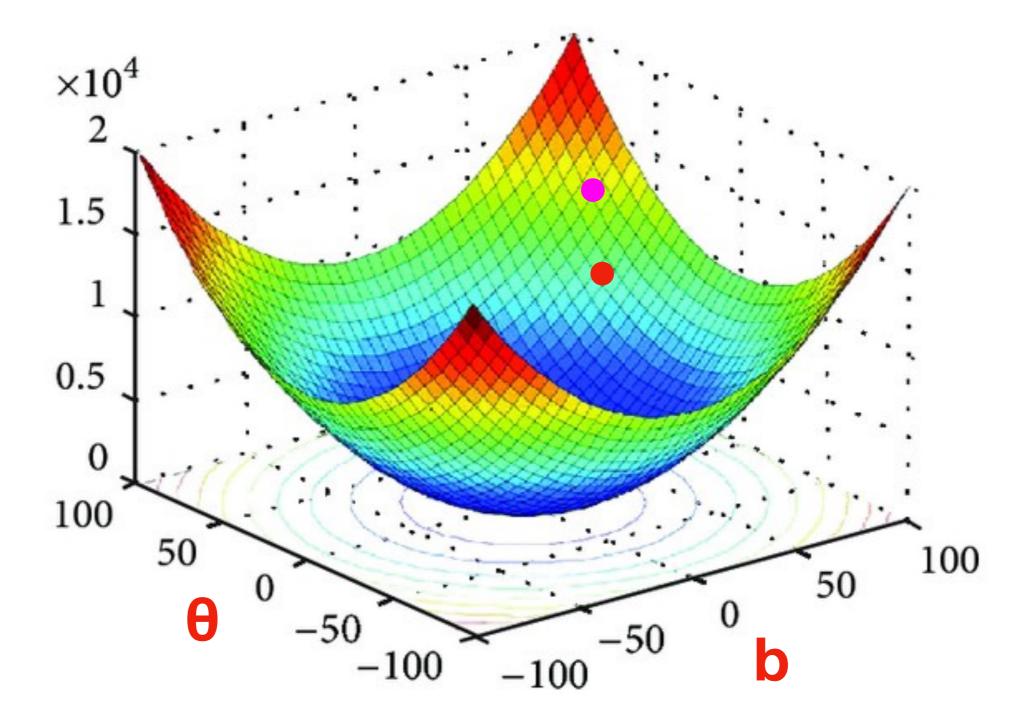


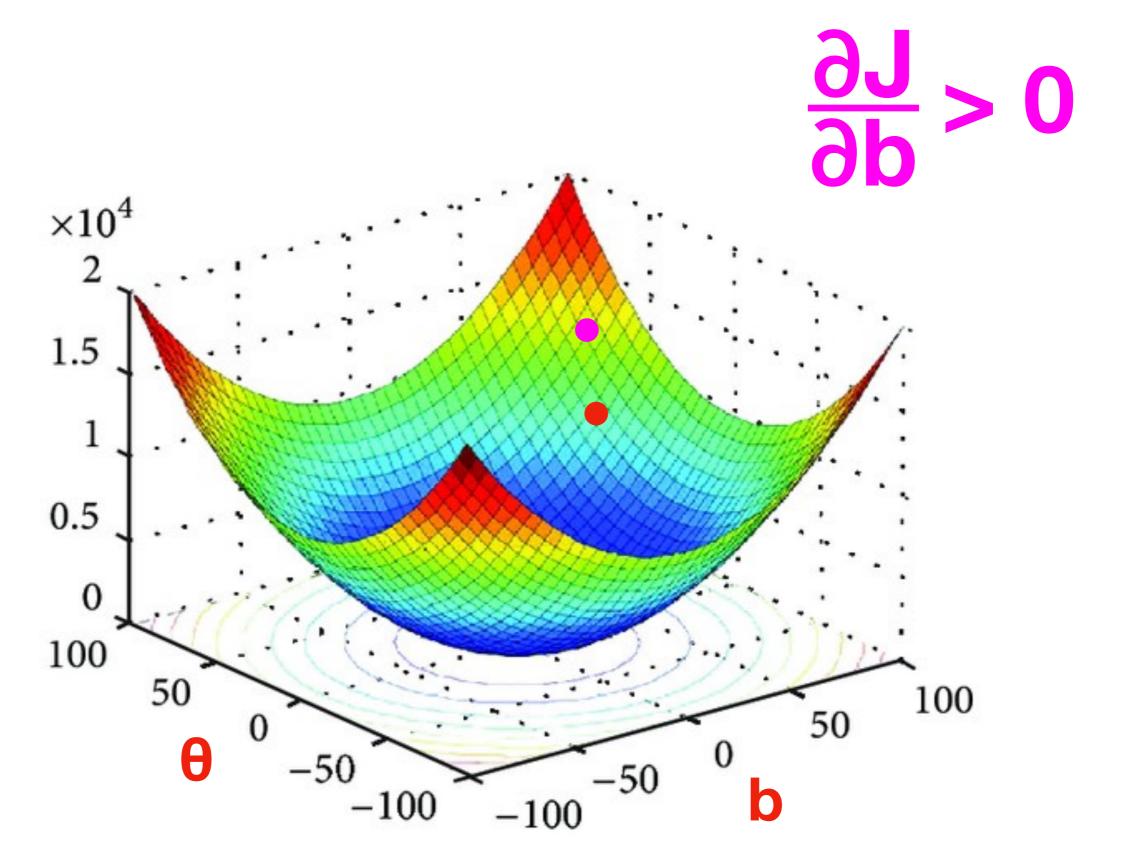
$\theta = \theta - \alpha \frac{\partial J}{\partial \theta}$

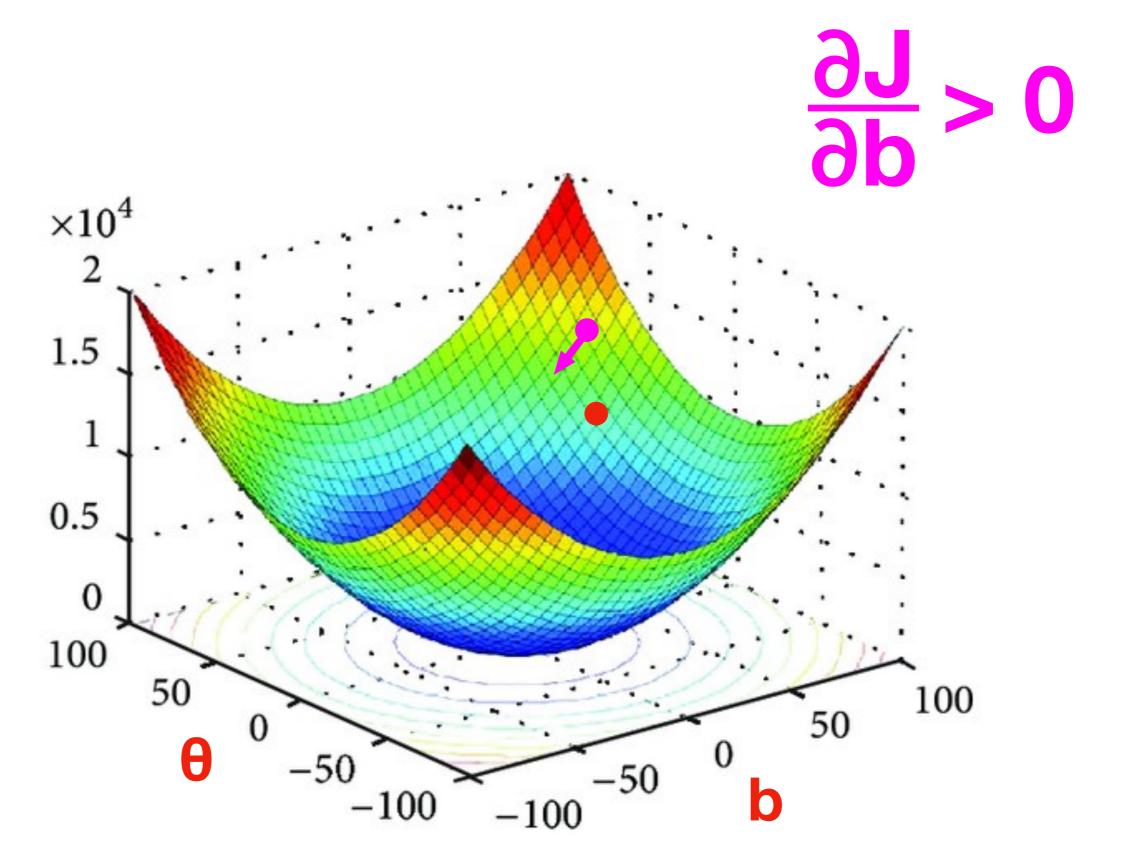


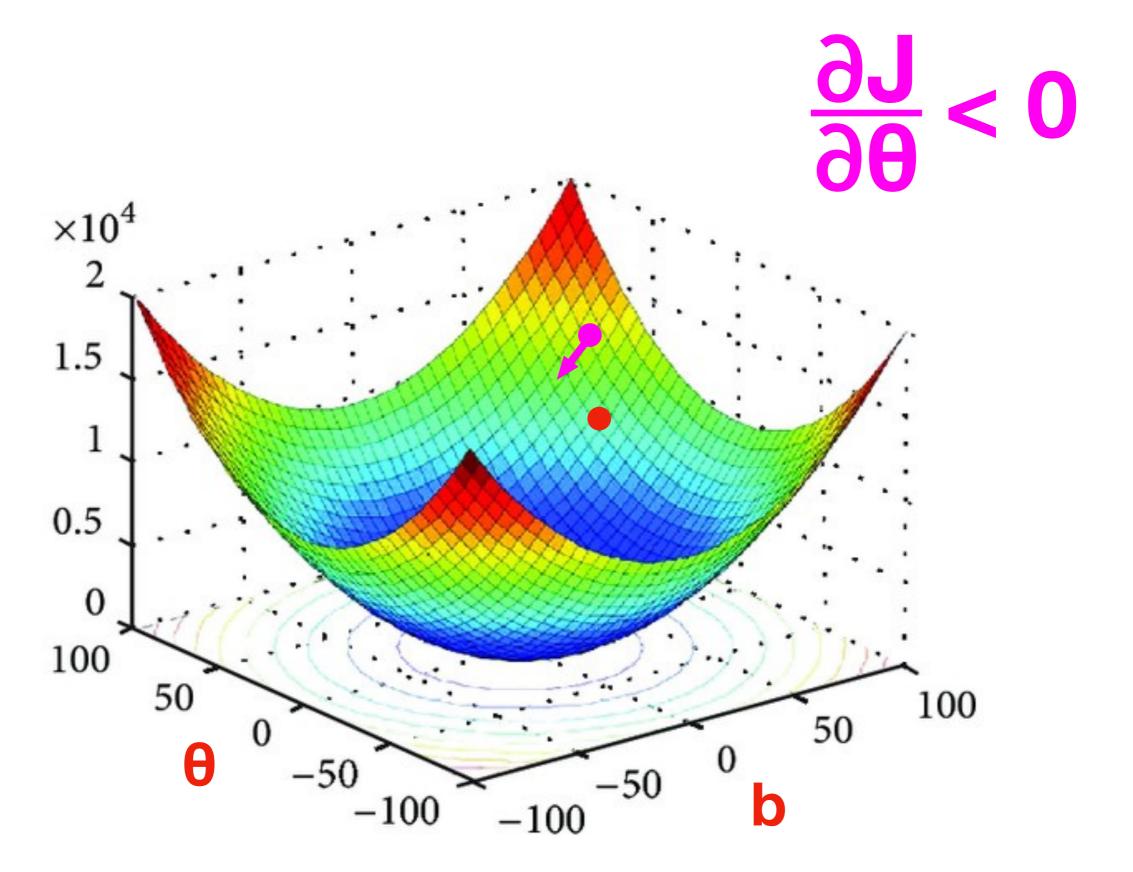
$\theta = \theta - \alpha \frac{\partial J}{\partial \theta}$

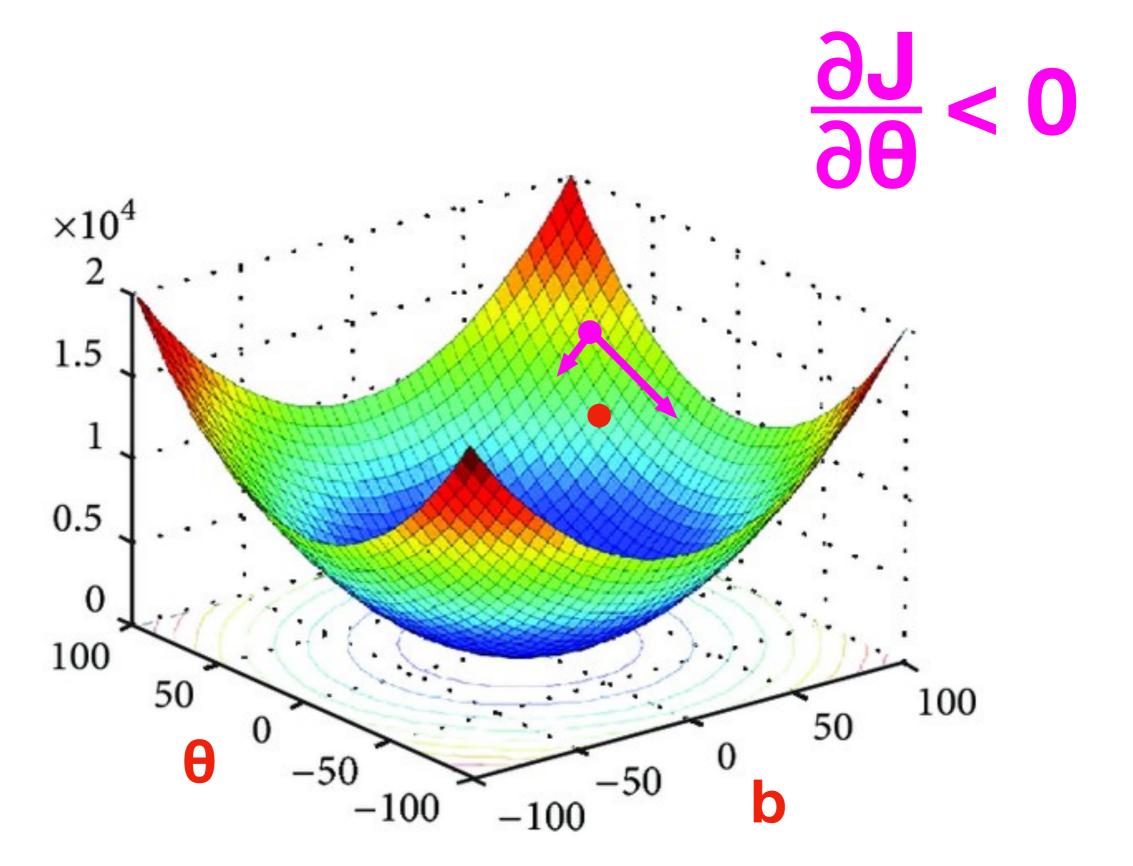


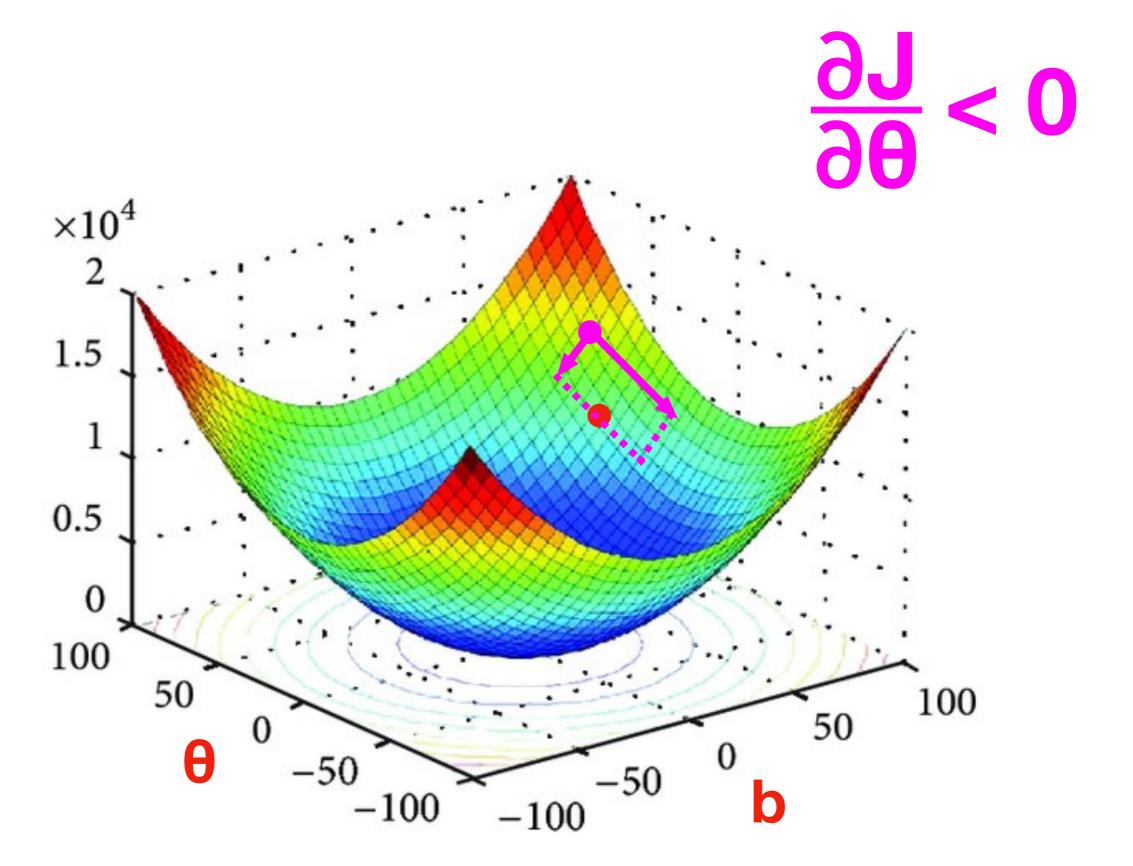


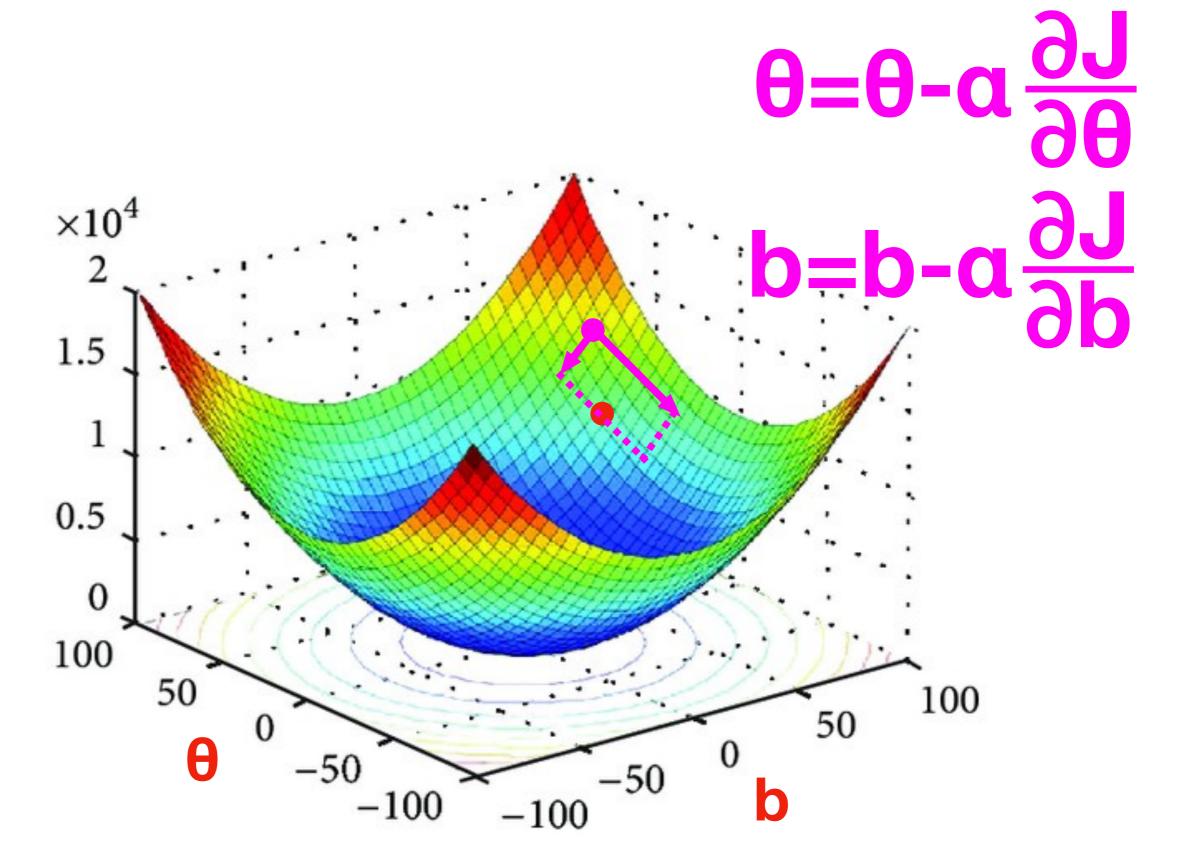


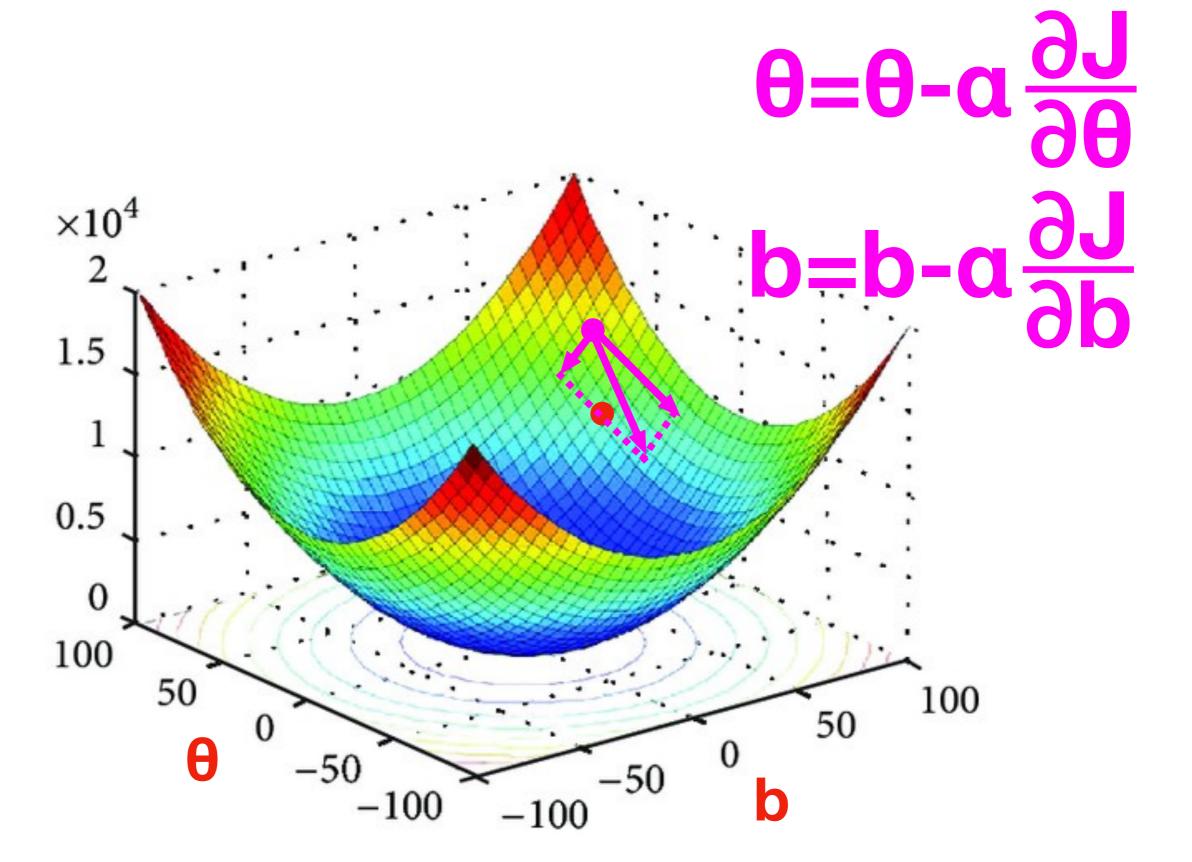


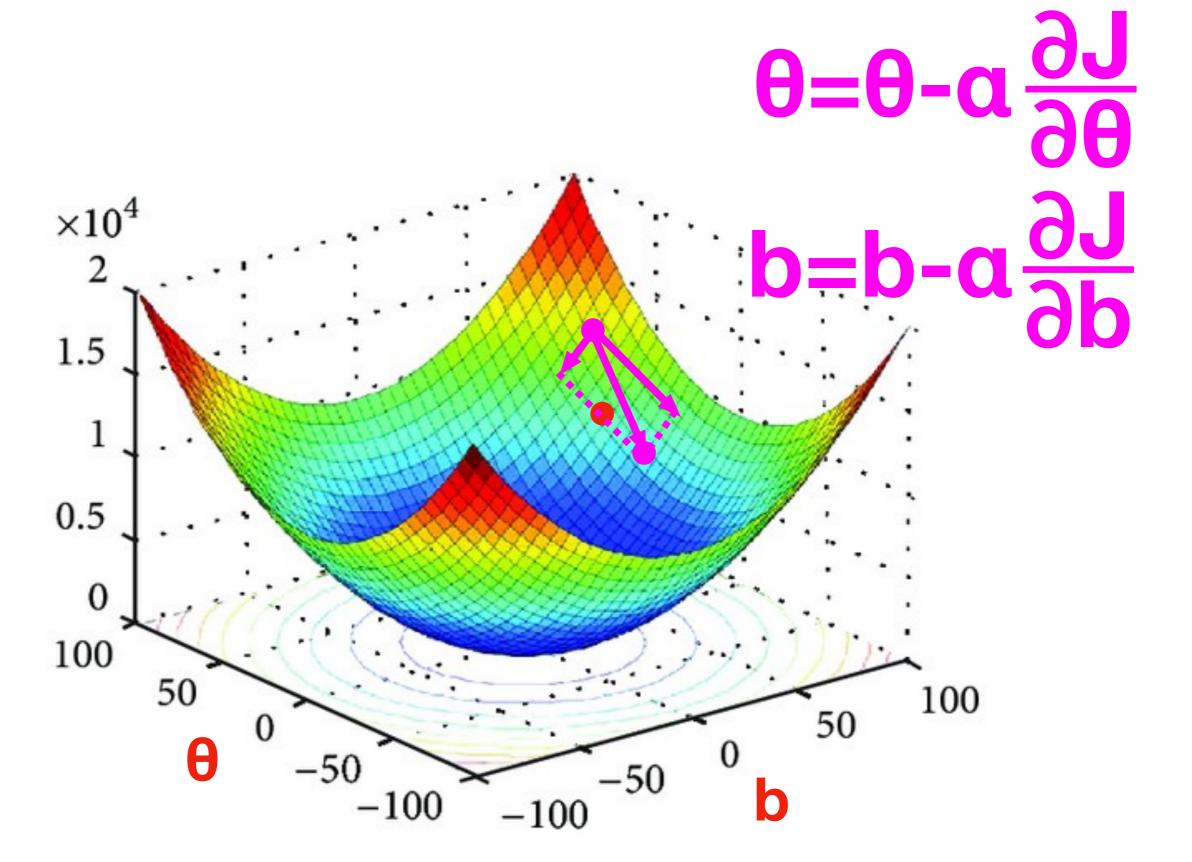


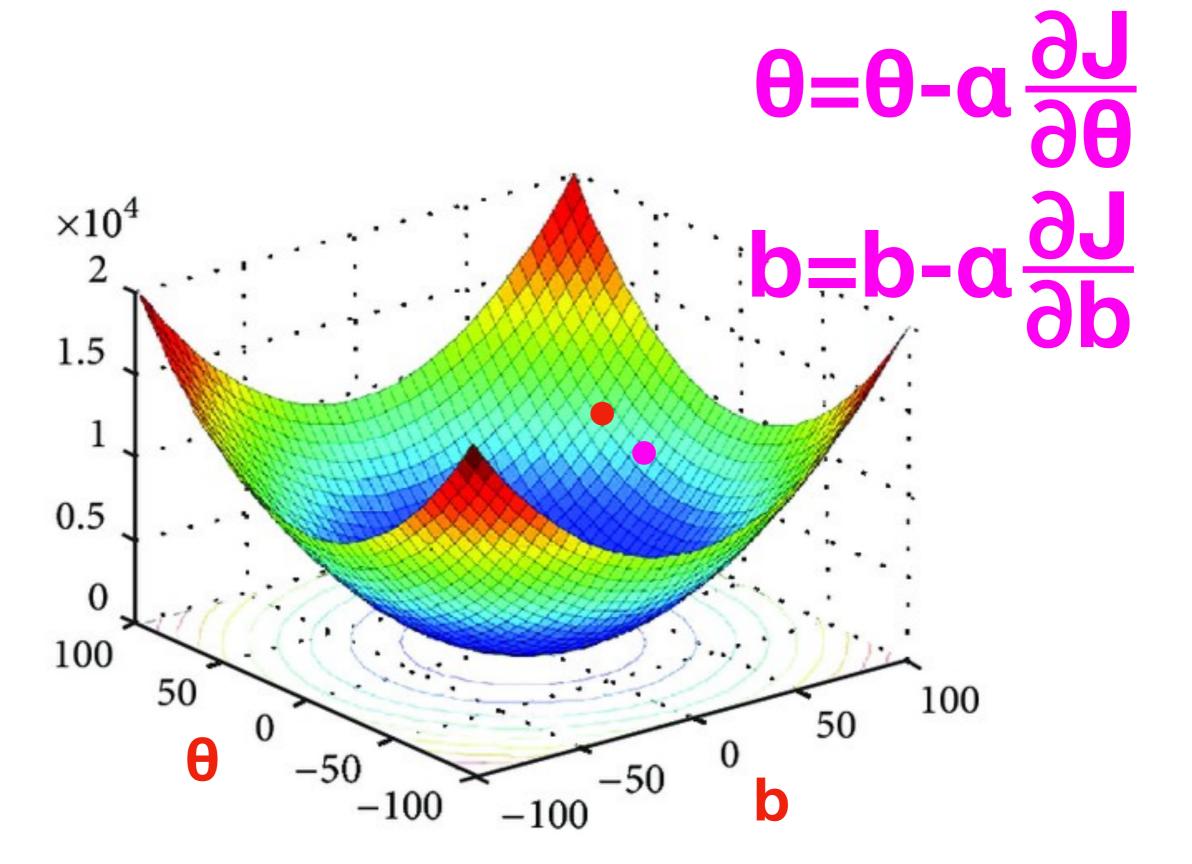












Steepest Descent

