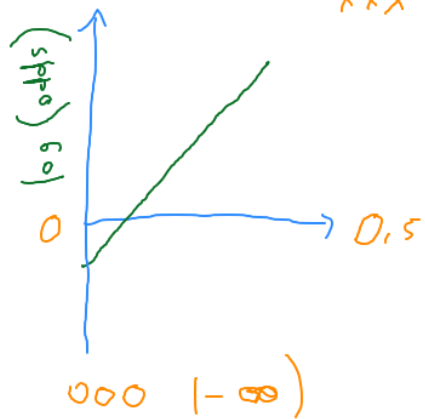


$$\underline{p(x)} = \frac{1}{1 + e^{-\theta x}} \quad \left(= \frac{e^{\theta x}}{1 + e^{\theta x}} \right)$$

$$p(7) = 0,9$$

$$xxx \quad \infty \quad p(5) = 0,4$$

$$\text{Coin} \quad p(H) = 0,5 = \frac{1}{2} \quad \left(\frac{H}{\{H, T\}} \right)$$



$$\text{odds} = \frac{p(x)}{1 - p(x)}$$

$$\text{Coin} \quad \text{odds}(H) : \frac{1}{1} \quad \frac{H}{T} (1:1)$$

$$= \frac{p}{1-p}$$

$$\log \eta = \log(\text{odds}) = \log \left(\frac{p(x)}{1 - p(x)} \right) = \theta x$$