Question. 9-05

다음과 같이 Sigmoid function의 Weight와 Bias, Data sample이 주어졌을 때, Prediction을 구하라.

$$\hat{y} = \sigma(w) = \frac{1}{1 + e^{-wx + b}}$$

$$(W, B, X) = \{(1, 1, 1), (1, 3, 1), (1, 5, 1), (2, 1, 1), (2, 3, 1), (2, 5, 1)\}$$

Weight와 Bias의 ratio가 prediction에 끼치는 영향은 무엇인가

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1)

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(w,b,x)	ratio	I ()
$\left[\begin{array}{c} \left(V \left(D, X \right) \right) \\ \end{array}\right]$	10020	4
(1,1,1)	/	0.5
(1,8,1)	3	0.881
(1,5,1)	5	0.982
(2,1,1)	1	0.431
(2,3,1)	31252	0,267
(2,5,1)	5.2	0.047

2) W, b의 ration 时科 production의 西郊长年 2717 空程 生气和