

1.1) forward pass for Epoch 1:-

Sample 1:-

using initial parameters

$$w_1^{(0)} = 0 \quad w_2^{(0)} = 0 \quad b^{(0)} = 0$$

$$\hat{y}_1 = w_1 x_1 + w_2 x_2 + b$$

$$\hat{y}_1 = 0(1) + 0(1) + 0 = 0$$

Sample 2:-

$$\hat{y}_2 = 0(2) + 0(1) + 0 = 0$$