

Now
$$\frac{1}{y^{2}} = 3 + (3 \times -5) + (3 \times 4) + (3 \times -3)$$

$$= 3 - 15 + 12 - 9$$

$$y = -9$$
Applying activation function
$$y^{2} = \frac{1}{1 + e^{-1-4}} = 0.0001234$$

$$y = 1 + e^{-1-4} = 0.0001234$$