In N=4
$$D=3$$

$$G. Starting point
$$W_6 = \begin{bmatrix} 2 & 3 & 5 \end{bmatrix}$$

$$W = \begin{bmatrix} 2 & 3 & 5 \end{bmatrix}$$

$$W = W_0 - P \nabla_{W_0} \int^T (W_{00})$$

$$W_2 = W_1 - P \nabla_{W_0} \int^T (W_{00})$$

$$W_3 = W_2 - P \nabla_{W_0} \int^T (W_{00})$$

$$W_3 = W_2 - P \nabla_{W_0} \int^T (W_{00})$$$$

$$P(X=0|Y=1) = \frac{3}{2} = .75$$

$$0 |Y=0|Y=0| = \frac{3}{2} = .25 \neq P(X=0) = \frac{1}{2}$$

$$|Y=0| = \frac{3}{2} = .25 \neq P(X=0) = \frac{1}{2}$$

$$|Y=0| = \frac{3}{2} = .25 \neq P(X=0) = \frac{1}{2}$$

$$P(X=0|Y=1) = \frac{3}{12} = .75$$

$$P(X=0|Y=0) = \frac{3}{12} = .25 \neq P(X=0) = \frac{1}{2}$$

The test set is used to generate the weight vectors while the validation set is used to test the weight vectors generalfrom the test set, this allows for a test of the error of the weight vactors.