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In-Class Activity 8

$$p_1 net = [-2.5 \quad 1.75]\begin{bmatrix}1\\1\end{bmatrix} = -0.75$$
$$sgn(net) = 2$$
$$w^2 = w^1 + 2\begin{bmatrix}1\\1\end{bmatrix} = \begin{bmatrix}-2.5\\1.75\end{bmatrix} + \begin{bmatrix}2\\2\end{bmatrix} = \begin{bmatrix}-0.5\\3.75\end{bmatrix}$$

$$p_2 net = [-0.5 \quad 3.75]\begin{bmatrix}-0.75\\1\end{bmatrix} = 4.125$$
$$sgn(net) = -2$$
$$w^3 = w^2 - 2\begin{bmatrix}-0.75\\1\end{bmatrix} = \begin{bmatrix}-0.5\\3.75\end{bmatrix} + \begin{bmatrix}1.5\\-2\end{bmatrix} = \begin{bmatrix}1\\1.75\end{bmatrix}$$

$$p_3 net = [1 \quad 1.75]\begin{bmatrix}2.5\\1\end{bmatrix} = 4.25$$
$$sgn(net) = 0$$
$$w^4 = w^3 + 0 = w^3$$