

$$\vec{w} = \begin{bmatrix} \bullet \\ \bullet \\ \bullet \\ \bullet \end{bmatrix}$$

$$\vec{x}^{(1)} = \begin{bmatrix} 1 \\ \bullet \\ \bullet \\ \bullet \end{bmatrix}$$

$$\vec{x}^{(2)} = \begin{bmatrix} 1 \\ \bullet \\ \bullet \\ \bullet \end{bmatrix}$$

$$\vec{x}^{(3)} = \begin{bmatrix} 1 \\ \bullet \\ \bullet \\ \bullet \end{bmatrix}$$

$$\hat{y}^{(1)} = \vec{w}^T \vec{x}^{(1)}$$