



$$\rightarrow [1 \ 0 \ 3] \times \begin{bmatrix} 2 \\ -1 \\ -1 \end{bmatrix} = -1$$

$$\begin{aligned} f(x; w) &= w_1 x_1 + w_2 x_2 + w_3 x_3 \\ &= \sum_i w_i x_i \end{aligned}$$