

2. Find the equation f(x) = ax + b of the least square line for the points (1,0), (-1,2), (2,1).

$$M^2 = \langle \Lambda^x_x \rangle - \frac{\langle M^1 M^2 \rangle}{\langle M^1 M^2 \rangle} \langle M^1 M^1 \rangle$$

$$\begin{bmatrix} 9 & 1 \\ -1 & y \\ 1 & 0 \end{bmatrix}$$

$$W_1 = \sqrt{\frac{1}{1^2 + 1^2 + 3^2}} = \sqrt{6}$$

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$$A^T \cdot A \times = A^T b$$

$$\begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 2 & 1 \end{bmatrix} = \begin{bmatrix} 6 & 0 \\ 0 & 5 \end{bmatrix} \qquad A^{T} = \begin{bmatrix} 1 & -1 & 2 \\ 0 & 2 & 1 \end{bmatrix}$$