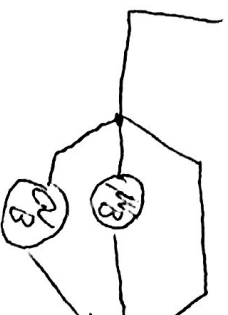


$$\vec{X} = \begin{bmatrix} 1 \\ 3 \end{bmatrix}$$



$$X_i = \frac{1}{\sigma_8} (X_i - \mu_8)$$

$$\vec{X} = \begin{bmatrix} -1 \\ 1 \end{bmatrix}$$

$$y_i = \mu x_i + \beta$$

$$\vec{y} = \begin{bmatrix} -6 \\ 2 \end{bmatrix}$$

$$\mathcal{L} = \sum_i y_i^2$$

$$\underline{\underline{40 = \mathcal{L}}}$$

$$\mu_8 = \frac{1+3}{2} = \underline{2}$$

$$\sigma_8 = \sqrt{\frac{1}{2} [(-1)^2 + 1^2]} = \underline{1}$$

$$\mu = 4$$

$$\beta = -2$$