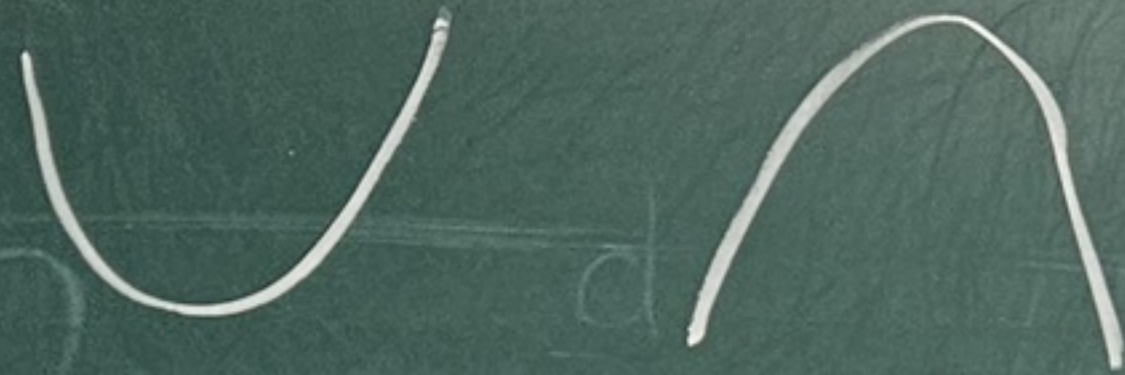


$$ax^2$$



$$\begin{bmatrix} x_i^{(1)} \\ x_i^{(2)} \end{bmatrix} = x_i$$

~~$$ax^2 + bxy + cy^2$$~~

$$a[x^{(1)}]^2 + b x^{(1)} x^{(2)} + c[x^{(2)}]^2 =$$

$$x = \begin{bmatrix} x^{(1)} \\ x^{(2)} \end{bmatrix} = x^T A x$$

$$\begin{array}{c}
 x^T A x \\
 (2 \times 1) (2 \times 2) (2 \times 1)
 \end{array}
 = \text{weight}
 \begin{array}{c}
 (1 \times 1)
 \end{array}$$



$$\begin{array}{c}
 f(x; \mu, \sigma) \\
 \frac{1}{\sigma \sqrt{2\pi}} \exp\left[-\frac{1}{2} \left(\frac{x - \mu}{\sigma}\right)^2\right]
 \end{array}$$

$$[x^{(1)} \quad x^{(2)}] \begin{bmatrix} ? \\ \vdots \end{bmatrix} A \begin{bmatrix} x^{(1)} \\ x^{(2)} \end{bmatrix}$$

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