

$$y = x$$

$$y = x^2$$

$$y = 1 + x + x^2 + x^3 + \dots + x^n$$

$$x_1 = x \quad x_2 = x^2 \quad x_3 = x^3 \quad \dots \quad x_p = x^p$$

$$x_1 = x_1$$

$$x_2 = x_2$$

$$x_3 = x_1 x_2$$

1-100

1-100

1-10000

$$x_1 = \frac{x_1 - 50}{100}$$

$$x_2 = \frac{x_2 - 50}{100}$$

$$x_3 = \frac{x_3 - 5000}{10000}$$

②

$$y = CRT \quad A_0 = ISLWA$$

$$y = \theta_0 + \theta_1 x$$

$$\begin{bmatrix} \\ \end{bmatrix}$$

Quadratic Model

$$y = \theta_0 + \theta_1 x + \theta_2 x^2$$

$$\begin{bmatrix} \\ \end{bmatrix}$$

$$\begin{bmatrix} x & x^2 \end{bmatrix}$$