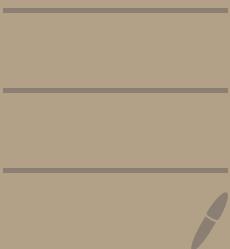


# 1. 处理对称系数

## 高次方程

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1.

$$x^4 + 7x^3 + 14x^2 + 7x + 1 = 0$$

$$\Rightarrow x^2 + 7x + 14 + 7\frac{1}{x} + \frac{1}{x^2} = 0$$

$$\Rightarrow (x + \frac{1}{x})^2 + 7(x + \frac{1}{x}) + 12 = 0$$

$$\Rightarrow t^2 + 7t + 12 = 0$$