

Root-Coefficient Relationships

Ex

Given that $x^2 - 6x + k = 0$ has roots α and α^2 , find the value of k .

$$\begin{cases} \alpha + \alpha^2 = 6 & \dots(1) \\ \alpha \cdot \alpha^2 = \alpha^3 = k & \dots(2) \end{cases}$$

From (1),

$$\alpha^2 + \alpha - 6 = 0$$

$$(\alpha + 3)(\alpha - 2) = 0$$

Therefore, $\alpha = -3, 2$

Substituting into (2),

$$\text{When } \alpha = -3, k = -27$$

$$\text{When } \alpha = 2, k = 8$$

1. Given that $x^2 - 12x + k = 0$ has roots α and α^2 , find the value of k .

$$\begin{cases} \alpha + \alpha^2 = 12 & \dots(1) \\ \alpha \cdot \alpha^2 = \alpha^3 = k & \dots(2) \end{cases}$$

From (1),

$$\alpha^2 + \alpha - 12 = 0$$

$$(\alpha + 4)(\alpha - 3) = 0$$

$$\alpha = -4, 3$$

Substituting into (2),

$$\text{When } \alpha = -4, k = -64$$

$$\text{When } \alpha = 3, k = 27$$

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Given that $x^2 - 12x + k = 0$ has roots α and 2α , find the value of k .

$$\begin{cases} \alpha + 2\alpha = 12 & \dots(1) \\ \alpha \cdot 2\alpha = 2\alpha^2 = k & \dots(2) \end{cases}$$

From (1),

$$3\alpha = 12$$

$$\alpha = 4$$

Substituting into (2),

$$k = 32$$

1. Given that $x^2 + kx + 12 = 0$ has roots α and 2α , find the value of k .

$$\begin{cases} \alpha + 2\alpha = -k & \dots(1) \\ \alpha \cdot 2\alpha = 12 & \dots(2) \end{cases}$$

From (2),

$$\alpha^2 = 6$$

$$\alpha = \pm\sqrt{6}$$

Substituting into (1),

$$\text{When } \alpha = \sqrt{6}, k = -3\sqrt{6}$$

$$\text{When } \alpha = -\sqrt{6}, k = 3\sqrt{6}$$

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