

Root-Coefficient Relationships

**Ex**

Given that  $x^2 - 6x + k = 0$  has roots  $\alpha$  and  $\alpha^2$ , 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 the Root-Coefficient Relationship of the given quadratic equation

From ①,

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

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

Therefore,  $\alpha = -3, 2$

Substituting into ②,

When  $\alpha = -3, k = -27$

When  $\alpha = 2, k = 8$

1. Given that  $x^2 - 12x + k = 0$  has roots  $\alpha$  and  $\alpha^2$ , 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,

When  $\alpha = -4, k = -64$

When  $\alpha = 3, k = 27$

Given that  $x^2 - 12x + k = 0$  has roots  $\alpha$  and  $2\alpha$ , 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  $\alpha$  and  $2\alpha$ , 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,

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

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

# Kumon Answer Book Level J Math

**A Gutmann**



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