

1. 다음은 이차방정식 $ax^2 + bx + c = 0$ ($a \neq 0$) 을 푸는 과정이다. ① ~ ⑤에 들어갈 식이 바르지 못한 것은?

$$ax^2 + bx + c = 0$$

$$x^2 + \frac{b}{a}x = -\frac{c}{a}$$

$$x^2 + \frac{b}{a}x + \textcircled{1} = -\frac{c}{a} + \textcircled{1}$$

$$(x + \textcircled{2})^2 = \textcircled{3}$$

$$x = \textcircled{4} \pm \textcircled{5}$$

$$\textcircled{1} \quad \frac{b^2}{4a^2}$$

$$\textcircled{2} \quad \frac{b}{2a}$$

$$\textcircled{3} \quad \frac{b^2 - 4ac}{2a}$$

$$\textcircled{4} \quad -\frac{b}{2a}$$

$$\textcircled{5} \quad \frac{\sqrt{b^2 - 4ac}}{2a}$$

2. 다음은 이차방정식 $ax^2 + 2bx + c = 0$ ($a \neq 0$)을 푸는 과정이다. ① ~ ⑤에 들어갈 식이 바르지 못한 것은? (단, $b^2 - ac \geq 0$)

$$ax^2 + 2bx + c = 0 \ (a \neq 0)$$

$$x^2 + \frac{2b}{a}x = -\frac{c}{a}$$

$$x^2 + \frac{2b}{a}x + \textcircled{1} = -\frac{c}{a} + \textcircled{1}$$

$$(x + \textcircled{2})^2 = \textcircled{3}$$

$$x = \textcircled{4} \pm \textcircled{5}$$

$$\textcircled{1} \quad \frac{b^2}{a^2}$$

$$\textcircled{4} \quad -\frac{b}{a}$$

$$\textcircled{2} \quad \frac{b}{a}$$

$$\textcircled{5} \quad \frac{\sqrt{b^2 - ac}}{a^2}$$

$$\textcircled{3} \quad \frac{b^2 - ac}{a^2}$$