

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

$$ax^2 + 2bx + c = 0 \ (a \neq 0)$$
$$x^2 + \frac{2b}{a}x = -\frac{c}{a}$$
$$x^2 + \frac{2b}{a}x + \textcircled{1} = -\frac{c}{a} + \textcircled{1}$$
$$(x + \textcircled{2})^2 = \textcircled{3}$$
$$x = \textcircled{4} \pm \textcircled{5}$$

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

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

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

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

$$ax^2 + bx + c = 0$$
$$x^2 + \frac{b}{a}x = -\frac{c}{a}$$
$$x^2 + \frac{b}{a}x + \textcircled{1} = -\frac{c}{a} + \textcircled{1}$$
$$(x + \textcircled{2})^2 = \textcircled{3}$$
$$x = \textcircled{4} \pm \textcircled{5}$$

- ①  $\frac{b^2}{4a^2}$

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

⑤  $\frac{\sqrt{b^2 - 4ac}}{2a}$
- ③  $\frac{b^2 - 4ac}{2a}$