

1 次の式を因数分解しなさい。

①  $x^2 + 8x + 12$

②  $x^2 + 10x + 25$

③  $x^2 - 8x + 16$

④  $x^2 - 9$

⑤  $x^2 + 14x + 49$

⑥  $x^2 - 3x - 54$

⑦  $x^2 - 1$

⑧  $x^2 + 3x - 10$

⑨  $x^2 + 1.4x + 0.49$

⑩  $x^2 - 0.16$

⑪  $x^2 - \frac{2}{3}x + \frac{1}{9}$

⑫  $x^2 - \frac{9}{16}$

1 次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad x^2 + 8x + 12 \\ = (x + 2)(x + 6) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad x^2 + 10x + 25 \\ = (x + 5)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad x^2 - 8x + 16 \\ = (x - 4)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad x^2 - 9 \\ = (x + 3)(x - 3) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad x^2 + 14x + 49 \\ = (x + 7)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad x^2 - 3x - 54 \\ = (x - 9)(x + 6) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad x^2 - 1 \\ = (x + 1)(x - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad x^2 + 3x - 10 \\ = (x + 5)(x - 2) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad x^2 + 1.4x + 0.49 \\ = (x + 0.7)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad x^2 - 0.16 \\ = (x + 0.4)(x - 0.4) \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad x^2 - \frac{2}{3}x + \frac{1}{9} \\ = \left(x - \frac{1}{3}\right)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad x^2 - \frac{9}{16} \\ = \left(x + \frac{3}{4}\right)\left(x - \frac{3}{4}\right) \end{aligned}$$