

1 次の式を因数分解しなさい。

①  $x^2 + 11x + 24$

②  $x^2 + 12x + 36$

③  $x^2 - 4x + 4$

④  $x^2 - 16$

⑤  $x^2 + 14x + 49$

⑥  $x^2 + 2x - 48$

⑦  $x^2 - 9$

⑧  $x^2 + 5x - 24$

⑨  $x^2 + 0.4x + 0.04$

⑩  $x^2 - 0.64$

⑪  $x^2 - \frac{1}{3}x + \frac{1}{36}$

⑫  $x^2 - \frac{25}{64}$

1 次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad x^2 + 11x + 24 \\ = (x + 8)(x + 3) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad x^2 + 12x + 36 \\ = (x + 6)^2 \end{aligned}$$

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

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

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

$$\begin{aligned} \textcircled{6} \quad x^2 + 2x - 48 \\ = (x - 6)(x + 8) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad x^2 - 9 \\ = (x + 3)(x - 3) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad x^2 + 5x - 24 \\ = (x + 8)(x - 3) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad x^2 + 0.4x + 0.04 \\ = (x + 0.2)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad x^2 - 0.64 \\ = (x + 0.8)(x - 0.8) \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad x^2 - \frac{1}{3}x + \frac{1}{36} \\ = \left(x - \frac{1}{6}\right)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad x^2 - \frac{25}{64} \\ = \left(x + \frac{5}{8}\right)\left(x - \frac{5}{8}\right) \end{aligned}$$