

1 次の式を因数分解しなさい。

① $x^2 + 7x + 12$

② $x^2 + 14x + 49$

③ $x^2 - 4x + 4$

④ $x^2 - 25$

⑤ $x^2 + 8x + 16$

⑥ $x^2 + 2x - 48$

⑦ $x^2 - 4$

⑧ $x^2 + x - 12$

⑨ $x^2 + x + 0.25$

⑩ $x^2 - 0.09$

⑪ $x^2 - x + \frac{1}{4}$

⑫ $x^2 - \frac{4}{9}$

1 次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad x^2 + 7x + 12 \\ = (x + 3)(x + 4) \end{aligned}$$

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

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

$$\begin{aligned} \textcircled{4} \quad x^2 - 25 \\ = (x + 5)(x - 5) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad x^2 + 8x + 16 \\ = (x + 4)^2 \end{aligned}$$

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

$$\begin{aligned} \textcircled{7} \quad x^2 - 4 \\ = (x + 2)(x - 2) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad x^2 + x - 12 \\ = (x + 4)(x - 3) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad x^2 + x + 0.25 \\ = (x + 0.5)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad x^2 - 0.09 \\ = (x + 0.3)(x - 0.3) \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad x^2 - x + \frac{1}{4} \\ = \left(x - \frac{1}{2}\right)^2 \end{aligned}$$

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