

1 次の式を因数分解しなさい。

① $x^2 + 10x + 21$

② $x^2 + 12x + 36$

③ $x^2 - 10x + 25$

④ $x^2 - 64$

⑤ $x^2 + 8x + 16$

⑥ $x^2 - 6x - 16$

⑦ $x^2 - 36$

⑧ $x^2 + x - 12$

⑨ $x^2 + 1.6x + 0.64$

⑩ $x^2 - 0.09$

⑪ $x^2 - \frac{4}{5}x + \frac{4}{25}$

⑫ $x^2 - \frac{1}{16}$

1 次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad x^2 + 10x + 21 \\ = (x + 3)(x + 7) \end{aligned}$$

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

$$\begin{aligned} \textcircled{3} \quad x^2 - 10x + 25 \\ = (x - 5)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad x^2 - 64 \\ = (x + 8)(x - 8) \end{aligned}$$

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

$$\begin{aligned} \textcircled{6} \quad x^2 - 6x - 16 \\ = (x - 8)(x + 2) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad x^2 - 36 \\ = (x + 6)(x - 6) \end{aligned}$$

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

$$\begin{aligned} \textcircled{9} \quad x^2 + 1.6x + 0.64 \\ = (x + 0.8)^2 \end{aligned}$$

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

$$\begin{aligned} \textcircled{11} \quad x^2 - \frac{4}{5}x + \frac{4}{25} \\ = \left(x - \frac{2}{5}\right)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad x^2 - \frac{1}{16} \\ = \left(x + \frac{1}{4}\right)\left(x - \frac{1}{4}\right) \end{aligned}$$