

1 次の式を因数分解しなさい。

①  $x^2 + 6x + 8$

②  $x^2 + 14x + 49$

③  $x^2 - 12x + 36$

④  $x^2 - 81$

⑤  $x^2 + 10x + 25$

⑥  $x^2 + 5x - 14$

⑦  $x^2 - 49$

⑧  $x^2 + 3x - 10$

⑨  $x^2 + 1.8x + 0.81$

⑩  $x^2 - 0.16$

⑪  $x^2 - \frac{6}{7}x + \frac{9}{49}$

⑫  $x^2 - \frac{9}{25}$

1 次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad x^2 + 6x + 8 \\ = (x + 4)(x + 2) \end{aligned}$$

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

$$\begin{aligned} \textcircled{3} \quad x^2 - 12x + 36 \\ = (x - 6)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad x^2 - 81 \\ = (x + 9)(x - 9) \end{aligned}$$

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

$$\begin{aligned} \textcircled{6} \quad x^2 + 5x - 14 \\ = (x - 2)(x + 7) \end{aligned}$$

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

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

$$\begin{aligned} \textcircled{9} \quad x^2 + 1.8x + 0.81 \\ = (x + 0.9)^2 \end{aligned}$$

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

$$\begin{aligned} \textcircled{11} \quad x^2 - \frac{6}{7}x + \frac{9}{49} \\ = \left(x - \frac{3}{7}\right)^2 \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad x^2 - \frac{9}{25} \\ = \left(x + \frac{3}{5}\right)\left(x - \frac{3}{5}\right) \end{aligned}$$