

1 次の式を因数分解しなさい。

①  $2x + 8$

②  $5xy + 12y^2$

③  $4x^2 + 24x$

④  $6ab - 2a$

⑤  $3x^2 - 9xy$

⑥  $5ax + 15a$

⑦  $8ab + 2bc$

⑧  $45x^2y - 9xy^2$

⑨  $7a^2b + 14ab^2 - 28ab$

⑩  $14ab + 2a$

⑪  $18x^3y^2 - 3x^2y$

⑫  $3a^2b - 9ab^2 - 15ab$

⑬  $6a^2b - 12ab^2 + 24abc$

⑭  $28x^3y^3 + 16x^2y^2$

⑮  $18a^3b - 12a^2b^2 - 32ab^3$

⑯  $15a^3b^2 - 25a^2b^3 - 30a^2b^2$

1 次の式を因数分解しなさい。

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

$$\begin{aligned} \textcircled{2} \quad & 5xy + 12y^2 \\ & = y(5x + 12y) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & 4x^2 + 24x \\ & = 4x(x + 6) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 6ab - 2a \\ & = 2a(3b - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 3x^2 - 9xy \\ & = 3x(x - 3y) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & 5ax + 15a \\ & = 5a(x + 3) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & 8ab + 2bc \\ & = 2b(4a + c) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & 45x^2y - 9xy^2 \\ & = 9xy(5x - y) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & 7a^2b + 14ab^2 - 28ab \\ & = 7ab(a + 2b - 4) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & 14ab + 2a \\ & = 2a(7b + 1) \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & 18x^3y^2 - 3x^2y \\ & = 3x^2y(6xy - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & 3a^2b - 9ab^2 - 15ab \\ & = 3ab(a - 3b - 5) \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad & 6a^2b - 12ab^2 + 24abc \\ & = 6ab(a - 2b + 4c) \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad & 28x^3y^3 + 16x^2y^2 \\ & = 4x^2y^2(7xy + 4) \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad & 18a^3b - 12a^2b^2 - 32ab^3 \\ & = 2ab(9a^2 - 6ab - 16b^2) \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & 15a^3b^2 - 25a^2b^3 - 30a^2b^2 \\ & = 5a^2b^2(3a - 5b - 6) \end{aligned}$$