

26. 因数分解 公式① その2 異符号

1 因数分解しなさい。

$$\begin{array}{l} \textcircled{1} \quad x^2 + 2x - 15 \\ = \end{array} \quad \begin{array}{l} -15 \\ \hline 1 \times 15 \\ 3 \times 5 \end{array}$$

$$\begin{array}{l} \textcircled{2} \quad x^2 - 3x - 10 \\ = \end{array} \quad \begin{array}{l} -10 \\ \hline 1 \times 10 \\ 2 \times 5 \end{array}$$

$$\begin{array}{l} \textcircled{3} \quad x^2 + 4x - 12 \\ = \end{array} \quad \begin{array}{l} 12 \\ \hline 1 \times 12 \\ 2 \times 6 \\ 3 \times 4 \end{array}$$

$$\begin{array}{l} \textcircled{4} \quad x^2 - 8x - 48 \\ = \end{array} \quad \begin{array}{l} -48 \\ \hline 1 \times 48 \\ 2 \times 24 \\ 3 \times 16 \\ 4 \times 12 \\ 6 \times 8 \end{array}$$

$$\begin{array}{l} \textcircled{5} \quad x^2 + 3x - 54 \\ = \end{array} \quad \begin{array}{l} -54 \\ \hline 1 \times 54 \\ 2 \times 27 \\ 3 \times 18 \\ 6 \times 9 \end{array}$$

$$\begin{array}{l} \textcircled{6} \quad x^2 + 6ax - 16a^2 \\ = \end{array} \quad \begin{array}{l} -16a^2 \\ \hline a \times 16a \\ 2a \times 8a \\ 4a \times 4a \end{array}$$

$$\begin{array}{l} \textcircled{7} \quad x^2 - 10xy - 24y^2 \\ = \end{array} \quad \begin{array}{l} -24y^2 \\ \hline 4 \times 24y \\ 2y \times 12y \\ 3y \times 8y \\ 4y \times 6y \end{array}$$

$$\begin{array}{l} \textcircled{8} \quad x^2 + ax - 72a^2 \\ = \end{array} \quad \begin{array}{l} -72a^2 \\ \hline a \times 72a \\ 2a \times 36a \\ 3a \times 24a \\ 4a \times 18a \\ 6a \times 12a \\ 8a \times 9a \end{array}$$

2 因数分解しなさい。

$$\begin{array}{l} \textcircled{1} \quad x^2 - x - 12 \\ = \end{array} \quad \begin{array}{l} -12 \\ \hline 1 \times 12 \\ 2 \times 6 \\ 3 \times 4 \end{array}$$

$$\begin{array}{l} \textcircled{2} \quad x^2 + 2x - 8 \\ = \end{array} \quad \begin{array}{l} -8 \\ \hline 1 \times 8 \\ 2 \times 4 \end{array}$$

$$\begin{array}{l} \textcircled{3} \quad x^2 - 2x - 35 \\ = \end{array} \quad \begin{array}{l} -35 \\ \hline 1 \times 35 \\ 5 \times 7 \end{array}$$

$$\begin{array}{l} \textcircled{4} \quad x^2 + 3x - 28 \\ = \end{array} \quad \begin{array}{l} -28 \\ \hline 1 \times 28 \\ 2 \times 14 \\ 4 \times 7 \end{array}$$

$$\begin{array}{l} \textcircled{5} \quad x^2 - 5x - 36 \\ = \end{array} \quad \begin{array}{l} -36 \\ \hline 1 \times 36 \\ 2 \times 18 \\ 3 \times 12 \\ 4 \times 9 \end{array}$$

$$\begin{array}{l} \textcircled{6} \quad x^2 + 7ax - 18a^2 \\ = \end{array} \quad \begin{array}{l} -18a^2 \\ \hline a \times 18a \\ 2a \times 9a \\ 3a \times 6a \end{array}$$

$$\begin{array}{l} \textcircled{7} \quad x^2 - 3xy - 54y^2 \\ = \end{array} \quad \begin{array}{l} -54y^2 \\ \hline 4 \times 54y \\ 2y \times 27y \\ 3y \times 18y \\ 6y \times 9y \end{array}$$

$$\begin{array}{l} \textcircled{8} \quad x^2 - 4xy - 32y^2 \\ = \end{array} \quad \begin{array}{l} -32y^2 \\ \hline 4 \times 32y \\ 2y \times 16y \\ 4y \times 8y \end{array}$$

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1 因数分解しなさい。

① $x^2 + 2x - 15$
=

② $x^2 - 3x - 10$
=

③ $x^2 + 4x - 12$
=

④ $x^2 - 8x - 48$
=

⑤ $x^2 + 3x - 54$
=

⑥ $x^2 + 6ax - 16a^2$
=

⑦ $x^2 - 10xy - 24y^2$
=

⑧ $x^2 + ax - 72a^2$
=

2 因数分解しなさい。

① $x^2 - x - 12$
=

② $x^2 + 2x - 8$
=

③ $x^2 - 2x - 35$
=

④ $x^2 + 3x - 28$
=

⑤ $x^2 - 5x - 36$
=

⑥ $x^2 + 7ax - 18a^2$
=

⑦ $x^2 - 3xy - 54y^2$
=

⑧ $x^2 - 4xy - 32y^2$
=