

■ 因数分解を利用して、次の計算をなさい。

① $31^2 - 41^2 =$ 因数分解 $(31 + 41)(31 - 41)$

$=$ 計算 $72 \times (-10)$ $=$ 答え

② $22^2 - 38^2 =$ 因数分解

$=$ 計算 $=$ 答え

③ $38^2 - 32^2 =$ 因数分解

$=$ 計算 $=$ 答え

④ $12^2 - 32^2 =$ 因数分解

$=$ 計算 $=$ 答え

⑤ $69^2 - 79^2 =$ 因数分解

$=$ 計算 $=$ 答え

⑥ $35^2 - 65^2 =$ 因数分解

$=$ 計算 $=$ 答え

■ 因数分解を利用して、次の計算をなさい。

$$\textcircled{1} \quad 31^2 - 41^2 = \begin{array}{l} \text{因数分解} \\ (31 + 41)(31 - 41) \end{array}$$

$$= \begin{array}{l} \text{計算} \\ 72 \times (-10) \end{array} = \begin{array}{l} \text{答え} \\ -720 \end{array}$$

$$\textcircled{2} \quad 22^2 - 38^2 = \begin{array}{l} \text{因数分解} \\ (22 + 38)(22 - 38) \end{array}$$

$$= \begin{array}{l} \text{計算} \\ 60 \times (-16) \end{array} = \begin{array}{l} \text{答え} \\ -960 \end{array}$$

$$\textcircled{3} \quad 38^2 - 32^2 = \begin{array}{l} \text{因数分解} \\ (38 + 32)(38 - 32) \end{array}$$

$$= \begin{array}{l} \text{計算} \\ 70 \times 6 \end{array} = \begin{array}{l} \text{答え} \\ 420 \end{array}$$

$$\textcircled{4} \quad 12^2 - 32^2 = \begin{array}{l} \text{因数分解} \\ (12 + 32)(12 - 32) \end{array}$$

$$= \begin{array}{l} \text{計算} \\ 44 \times (-20) \end{array} = \begin{array}{l} \text{答え} \\ -880 \end{array}$$

$$\textcircled{5} \quad 69^2 - 79^2 = \begin{array}{l} \text{因数分解} \\ (69 + 79)(69 - 79) \end{array}$$

$$= \begin{array}{l} \text{計算} \\ 148 \times (-10) \end{array} = \begin{array}{l} \text{答え} \\ -1480 \end{array}$$

$$\textcircled{6} \quad 35^2 - 65^2 = \begin{array}{l} \text{因数分解} \\ (35 + 65)(35 - 65) \end{array}$$

$$= \begin{array}{l} \text{計算} \\ 100 \times (-30) \end{array} = \begin{array}{l} \text{答え} \\ -3000 \end{array}$$