

---

---

## いろいろな因数分解計算 (共通因数) I

---

---

学習日 月 日

/ 点

◆ 次の式を因数分解しなさい。

(1)  $3x^2 - 75$

(2)  $a - ax^2$

(3)  $2x^2 + 18x + 28$

(4)  $5x^2 + 25x + 30$

(5)  $2x^2 - 12x + 32$

(6)  $-2x^2 + 2x + 12$

(7)  $a^2y - 10ay + 16y$

(8)  $2abx^2 - 4abx - 16ab$

## 解答

$$\begin{aligned}(1) \quad & 3 ( x^2 - 25 ) \\ & = 3 ( x + 5 ) ( x - 5 )\end{aligned}$$

$$\begin{aligned}(2) \quad & a ( 1 - x^2 ) \\ & = a ( 1 + x ) ( 1 - x )\end{aligned}$$

$$\begin{aligned}(3) \quad & 2 ( x^2 + 9x + 14 ) \\ & = 2 ( x + 2 ) ( x + 7 )\end{aligned}$$

$$\begin{aligned}(4) \quad & 5 ( x^2 + 5x + 6 ) \\ & = 5 ( x + 2 ) ( x + 3 )\end{aligned}$$

$$\begin{aligned}(5) \quad & 2 ( x^2 - 6x + 16 ) \\ & = 2 ( x - 8 ) ( x - 2 )\end{aligned}$$

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

$$\begin{aligned}(7) \quad & y ( a^2 - 10a + 16 ) \\ & = y ( a - 2 ) ( a - 8 )\end{aligned}$$

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