

## 因数分解による解き方2

NO.1

名前

/7 点

■ 次の方程式を解きなさい。

$$\textcircled{1} \quad x(x - 9) = -20$$

$$\textcircled{2} \quad x(x + 4) = 5x + 6$$

$$\textcircled{3} \quad (x - 2)^2 = 2x^2 + 7$$

$$\textcircled{4} \quad (x + 2)(x - 8) = 3x^2 - 8$$

$$\textcircled{5} \quad (x - 2)^2 = -x + 8$$

$$\textcircled{6} \quad (x + 6)(x - 1) - 6x = 0$$

$$\textcircled{7} \quad (2x - 3)^2 = x^2$$

## 解答

$$\textcircled{1} \quad x^2 - 9x + 20 = 0$$

$$(x - 4)(x - 5) = 0$$

$$x = 4, 5$$

$$\textcircled{2} \quad x^2 + 4x - 5x - 6 = 0$$

$$x^2 - x - 6 = 0$$

$$(x + 2)(x - 3) = 0$$

$$x = -2, 3$$

$$\textcircled{3} \quad x^2 - 4x + 4 - 2x^2 - 7 = 0$$

$$-x^2 - 4x - 3 = 0$$

$$x^2 + 4x + 3 = 0$$

$$(x + 1)(x + 3) = 0$$

$$x = -1, -3$$

$$\textcircled{4} \quad x^2 - 6x - 16 - 3x^2 + 8 = 0$$

$$-2x^2 - 6x - 8 = 0$$

$$x^2 + 3x + 4 = 0$$

$$(x + 1)(x + 4) = 0$$

$$x = -1, -4$$

$$\textcircled{5} \quad x^2 - 4x + 4 + x - 8 = 0$$

$$x^2 - 3x - 4 = 0$$

$$(x + 1)(x - 4) = 0$$

$$x = -1, 4$$

$$\textcircled{6} \quad x^2 + 5x - 6 - 6x = 0$$

$$x^2 - x - 6 = 0$$

$$(x + 2)(x - 3) = 0$$

$$x = -2, 3$$

$$\textcircled{7} \quad 4x^2 - 12x + 9 - x^2 = 0$$

$$3x^2 - 12x + 9 = 0$$

$$x^2 - 4x + 3 = 0$$

$$(x - 1)(x - 3) = 0$$

$$x = 1, 3$$