

いろいろな計算2

NO. 2

名前

/6

点

◆次の方程式を解きなさい

(1) $(x - 5)^2 - 3 = 0$

(2) $(x + 2)^2 - 17 = 0$

(3) $(x + 5)(x - 8) = -12$

(4) $(x + 1)(x - 3) = 3x + 3$

(5) $4(x + 3)^2 = 8$

(6) $(x + 2)(x - 8) = 2x^2 - 7$

解答

$$(1) \quad (x - 5)^2 = 3$$

$$x - 5 = \pm \sqrt{3}$$

$$x = 5 \pm \sqrt{3}$$

$$(2) \quad (x + 2)^2 = 17$$

$$x + 2 = \pm \sqrt{17}$$

$$x = -2 \pm \sqrt{17}$$

$$(3) \quad x^2 - 3x - 40 = -12$$

$$x^2 - 3x - 28 = 0$$

$$(x + 4)(x - 7) = 0$$

$$x = -4, 7$$

$$(3) \quad x^2 + 3x - 10 = 0$$

$$(y - 1)(y - 5) = 0$$

$$y = 1, 5$$

$$(4) \quad x^2 - x - 3 = 3x + 3$$

$$x^2 - 5x - 6 = 0$$

$$(x + 1)(x - 6) = 0$$

$$x = -1, 6$$

$$(5) \quad (x + 3)^2 = 2$$

$$x + 3 = \pm \sqrt{2}$$

$$x = -3 \pm \sqrt{2}$$

$$(6) \quad x^2 - 6x - 16 - 2x^2 + 7 = 0$$

$$-x^2 - 6x - 9 = 0$$

$$x^2 + 6x + 9 = 0$$

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

$$x = -3$$