

二次方程式 いろいろな計算 I

NO.2

名前

/6 点

◆次の方程式を解きなさい

(1) $x^2 + 13x = -40$

(2) $x^2 - 12 = x$

(3) $9x = x^2$

(4) $(x + 8)(x + 4) = -3$

(5) $x(7 + x) = -10$

(6) $(x + 8)(x + 5) = 6x + 34$

解答

$$(1) \quad x^2 + 13x + 40 = 0$$
$$(x + 5)(x + 8) = 0$$
$$x = -5, -8$$

$$(2) \quad x^2 - x - 12 = 0$$
$$(x + 3)(x - 4) = 0$$
$$x = -3, 4$$

$$(3) \quad x^2 - 9x = 0$$
$$x(x - 9) = 0$$
$$x = 0, 9$$

$$(4) \quad x^2 + 12x + 32 + 3 = 0$$
$$x^2 + 12x + 35 = 0$$
$$(x + 7)(x + 5) = 0$$
$$x = -7, -5$$

$$(5) \quad x^2 + 7x + 10 = 0$$
$$(x + 2)(x + 5) = 0$$
$$x = -2, -5$$

$$(6) \quad x^2 + 13x + 40 - 6x - 34 = 0$$
$$x^2 + 7x + 6 = 0$$
$$(x + 1)(x + 6) = 0$$
$$x = -1, -6$$