

いろいろな計算 1

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) $n^2 = 9n$

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

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

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

解答

$$\begin{aligned}(1) \quad & x^2 + 13x + 40 = 0 \\ & (x + 5)(x + 8) = 0 \\ & x = -5, -8\end{aligned}$$

$$\begin{aligned}(2) \quad & x^2 - x - 12 = 0 \\ & (x + 3)(x - 4) = 0 \\ & x = -3, 4\end{aligned}$$

$$\begin{aligned}(3) \quad & n^2 - 9n = 0 \\ n \quad & (n - 9) = 0 \\ & n = 0, 9\end{aligned}$$

$$\begin{aligned}(4) \quad & x^2 + 12x + 32 + 3 = 0 \\ & x^2 + 12x + 35 = 0 \\ & (x + 7)(x + 5) = 0 \\ & x = -7, -5\end{aligned}$$

$$\begin{aligned}(5) \quad & x^2 + 7x + 10 = 0 \\ & (x + 2)(x + 5) = 0 \\ & x = -2, -5\end{aligned}$$

$$\begin{aligned}(6) \quad & x^2 + 13x + 40 - 6x - 34 = 0 \\ & x^2 + 7x + 6 = 0 \\ & (x + 1)(x + 6) = 0 \\ & x = -1, -6\end{aligned}$$