

いろいろな計算2

NO. 1名前
|/6点

◆次の方程式を解きなさい

(1) $(x + 3)^2 - 8 = 0$

(2) $(x + 1)^2 - 7 = 0$

(3) $(x + 5)(x - 1) = 7$

(4) $(x + 5)(x - 2) = x - 2$

(5) $7(x + 10)^2 = 56$

(6) $(x - 2)(x - 4) = 4x^2 - 1$

解答

(1) $(x + 3)^2 = 8$

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

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

(2) $(x + 1)^2 = 7$

$x + 1 = \pm\sqrt{7}$

$x = -1 \pm \sqrt{7}$

(3) $x^2 + 4x - 5 = 7$

$x^2 + 4x - 12 = 0$

$(x - 2)(x + 6) = 0$

$x = 2, -6$

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

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

$y = 1, 5$

(4) $x^2 + 3x - 10 = x - 2$

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

$(x - 2)(x + 4) = 0$

$x = 2, -4$

(5) $(x + 10)^2 = 8$

$x + 10 = \pm 2\sqrt{2}$

$x = -10 \pm 2\sqrt{2}$

(6) $x^2 - 6x + 8 - 4x^2 + 1 = 0$

$-3x^2 - 6x + 9 = 0$

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

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

$x = 1, -3$