

## 1次方程式の解き方4-1

◆ 次の方程式を解きなさい。

$$(1) \quad 4x + 23 = 3(x + 9)$$

$$(2) \quad 4(x - 7) = 2x - 34$$

$$(3) \quad -2(4 + x) = 3(8 - x)$$

$$(4) \quad 1 - 4(9x - 8) = 4$$

$$(5) \quad 30x = 210(x - 9)$$

$$(6) \quad -20(7 + x) = 21(4 - x)$$

## 解答

◆ 次の方程式を解きなさい。

(1)  $4x + 23 = 3(x + 9)$

$4x + 23 = 3x + 27$

$4x - 3x = 27 - 23$

$x = 4$

$x = 4$

(2)  $4(x - 7) = 2x - 34$

$4x - 28 = 2x - 34$

$4x - 2x = -34 + 28$

$2x = -6$

$x = -3$

(3)  $-2(4 + x) = 3(8 - x)$

$-8 - 2x = 24 - 3x$

$-2x + 3x = 24 + 8$

$x = 32$

(4)  $1 - 4(9x - 8) = 4$

$1 - 36x + 32 = 4$

$-36x = 4 - 1 - 32$

$-36x = -29$

$x = \frac{29}{36}$

(5)  $30x = 21(x - 9)$

$3x = 21(x - 9)$

$3x = 21x - 189$

$3x - 21x = -189$

$-18x = -189$

$x = \frac{21}{2}$

(6)  $-20(7 + x) = 21(4 - x)$

$-140 - 20x = 84 - 21x$

$-20x + 21x = 84 + 140$

$1x = 224$

$x = 224$