

方程式の解き方 (4)

【1】次の方程式を解きなさい。

(1) $2x - 3 = 3$

$2x = 3 + 3$

$2x = 6$

$x = 3$

(2) $3x - 1 = 4x$

$3x - 4x = 1$

$-x = 1$

$x = -1$

(3) $4x + 3 = 6x - 7$

$4x - 6x = -7 - 3$

$-2x = -10$

$x = 5$

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

$2x + x = -4 + 4$

$3x = 0$

$x = 0$

(5) $8x - 3 = 2x - 15$

$8x - 2x = -15 + 3$

$6x = -12$

$x = -2$

(6) $8x - 13 = 7 + 3x$

$8x - 3x = 7 + 13$

$5x = 20$

$x = 4$

(7) $7x + 13 = 3(x - 9)$ () をはずす
 $7x + 13 = 3x - 27$

$4x = -40$

$x = -10$

(8) $2(5x - 7) = 3(x + 7)$ () をはずす
 $10x - 14 = 3x + 21$

$7x = 35$

$x = 5$

(9) $0.2x - 3 = -0.3x + 1$ 両辺に10をかける
 $2x - 30 = -3x + 10$

$5x = 40$

$x = 8$

(10) $0.8x + 1.7 = 0.6x - 0.1$ 両辺に10をかける
 $8x + 17 = 6x - 1$

$2x = -18$

$x = -9$

(11) $\frac{1}{4}x - 3 = \frac{11x + 4}{12}$ 両辺に12をかける
 $3x - 36 = 11x + 4$

$-8x = 40$

$x = -5$

(12) $\frac{x - 1}{8} = \frac{x + 2}{2}$ 両辺に8をかける
 $x - 1 = 4x + 8$

$x - 4x = 8 + 1$

$-3x = 9$

$x = -3$