



1. 次の方程式を移項を解きなさい。

(1)  $1.5(6 - 0.5x) + 1 = 0.5x + 4$

$9 - 0.75x + 1 = 0.5x + 4 \quad 4(10 - 0.75x) = 4(0.5x + 4) \quad 40 - 3x = 2x + 16 \quad 5x = 24 \quad x = \frac{24}{5}$

(2)  $(50 + 3x - (50 - 2x)) - (50 + 3(50 - x) - 2x) = 12$

$50 + 3x - 50 + 2x - (50 + 150 - 3x - 2x) = 12 \quad 5x + 5x - 200 = 12 \quad 10x = 212 \quad x = \frac{106}{5}$

(3)  $(2(x + 8) - 4x + 6) + 3 = -2(3(x - 1) + 5(2 - x) + 4) + 5$

$2x + 16 - 4x + 6 + 3 = -2(3x - 3 + 10 - 5x + 4) + 5 \quad -2x + 25 = -2(-2x + 11) + 5$   
 $-2x + 25 = 4x - 22 + 5 \quad 6x = 42 \quad x = 7$

(4)  $4x - \frac{5 - 2x}{10} = \frac{3x + 2}{5}$

$10 \times 4x - 10 \left( \frac{5 - 2x}{10} \right) = 10 \left( \frac{3x + 2}{5} \right) \quad 40x - 5 + 2x = 6x + 4 \quad 36x = 9 \quad x = \frac{1}{4}$

(5)  $3x - 2 \left( x - \frac{2 - 3x}{4} \right) = \frac{2x + 1}{2}$

$2 \times 3x - 2 \times 2 \left( x - \frac{2 - 3x}{4} \right) = 2 \left( \frac{2x + 1}{2} \right) \quad 6x - 4x + 2 - 3x = 2x + 1 \quad 3x = 1 \quad x = \frac{1}{3}$

(6)  $2 \left( \frac{x + 1}{2} - x \right) - 0.5x = 0.2(5x - 2) - \frac{1}{2}x$

$x + 1 - 2x - 0.5x = x - 0.4 - \frac{1}{2}x \quad -1.5x + 1 = 0.5x - 0.4 \quad 10(-1.5x + 1) = 10(0.5x - 0.4)$   
 $-15x + 10 = 5x - 4 \quad 20x = 14 \quad x = \frac{7}{10}$

(1) $x = \frac{24}{5}$	(2) $x = \frac{106}{5}$	(3) $x = 7$
(4) $x = \frac{1}{4}$	(5) $x = \frac{1}{3}$	(6) $x = \frac{7}{10}$