

問題番号  
07M03\_K1L1\_1  
レベル  
☆★★

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中1 第3章 1次方程式  
①～②練習問題 Level-1-1 解答

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1. 次の方程式を移項を利用して解きなさい。

$$(1) 5x + 9 = -3x + 1$$

$$5x + 3x = -9 + 1 \quad 8x = -8$$

$$x = -1$$

$$(2) -12x + 2 = -14 + 4x$$

$$-12x - 4x = -14 - 2$$

$$-16x = -16 \quad x = 1$$

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

$$3x - 6 = 12 \quad 3x = 12 + 6$$

$$3x = 18 \quad x = 6$$

$$(4) 6(x - 1) = 3x + 9$$

$$6x - 6 = 3x + 9$$

$$6x - 3x = 9 + 6$$

$$3x = 15 \quad x = 5$$

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

$$5x - 4x = \frac{3}{2} + \frac{1}{3} \quad x = \frac{9+2}{6} = \frac{11}{6}$$

$$(6) 0.6(x - 4) = 0.3(x + 5) + 1.5$$

$$10(0.6(x - 4)) = 10(0.3(x + 5) + 1.5)$$

$$6x - 24 = 3x + 15 + 15$$

$$6x - 3x = 24 + 30$$

$$3x = 54 \quad x = 18$$

$$(7) \frac{2}{3}(x - 4) = \frac{5}{6}x + \frac{1}{2}$$

$$6\left(\frac{2}{3}(x - 4)\right) = 6\left(\frac{5}{6}x + \frac{1}{2}\right)$$

$$4x - 16 = 5x + 3$$

$$5x - 4x = -16 - 3$$

$$x = -19$$

$$(8) \frac{5}{4}x - \frac{3}{2} = \frac{2}{3}x + 1$$

$$12\left(\frac{5}{4}x - \frac{3}{2}\right) = 12\left(\frac{2}{3}x + 1\right)$$

$$15x - 18 = 8x + 12$$

$$15x - 8x = 12 + 18 \quad 7x = 30$$

$$x = \frac{30}{7}$$

$$(9) \frac{5x - 4}{6} - \frac{3x + 1}{8} = \frac{x - 2}{4}$$

$$24\left(\frac{5x - 4}{6} - \frac{3x + 1}{8}\right) = 24\left(\frac{x - 2}{4}\right)$$

$$20x - 16 - 9x - 3 = 6x - 12$$

$$5x = 7$$

$$x = \frac{7}{5}$$

(1) $x = -1$	(2) $x = 1$	(3) $x = 6$
(4) $x = 5$	(5) $x = \frac{11}{6}$	(6) $x = 18$
(7) $x = -19$	(8) $x = \frac{30}{7}$	(9) $x = \frac{7}{5}$

2. 次の問いに答えなさい。

$$(1) \frac{5}{6}x + \frac{1}{2}a = \frac{3+a}{12}x + 5 \text{ の解が } x = 12 \text{ のときの } a \text{ の値を求めなさい。}$$

$$x = 12 \text{ を代入して解く } \frac{5}{6} \times 12 + \frac{1}{2}a = \frac{(3+a)}{12} \times 12 + 5 \quad 10 + \frac{1}{2}a = 8 + a \quad \frac{1}{2}a = 2 \quad a = 4$$

$$(2) \frac{7x - 24}{8} = \frac{x + 8}{4} \text{ のときの } x^2 \text{ の値を求めなさい。}$$

$$8 \times \left(\frac{7x - 24}{8}\right) = 8 \times \left(\frac{x + 8}{4}\right) \quad 7x - 24 = 2x + 16 \quad 5x = 40 \quad x = 8 \quad \text{したがって、 } x^2 = 64$$

(1) $a = 4$	(2) $x^2 = 64$
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