

数学科 方程式マスター G-⑤

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次の方程式を解きなさい。

$$\textcircled{1} \quad \frac{5}{6}x - 4 = -\frac{1}{3}x - 5$$

$$\textcircled{5} \quad -x - \frac{3}{7} = \frac{7}{2}x - 1$$

$$\textcircled{2} \quad -2x + \frac{2}{3} = \frac{1}{9}x + 1$$

$$\textcircled{6} \quad \frac{4}{9}x - \frac{1}{6} = \frac{1}{6}x - \frac{5}{6}$$

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

$$\textcircled{7} \quad -\frac{1}{6}x + 4 = \frac{1}{3}x + 5$$

$$\textcircled{4} \quad -\frac{3}{5}x + 4 = \frac{1}{2}x + 3$$

数学科 方程式マスター G-5

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次の方程式を解きなさい。

① $\frac{5}{6}x - 4 = -\frac{1}{3}x - 5$

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

$5x - 24 = -2x - 30$

$5x - 24 = -2x - 30 \rightarrow 7x \div 7 = -6 \div 7$

$5x + 2x = 24 - 30$

$7x = -6$

$x = -\frac{6}{7}$

② $-2x + \frac{2}{3} = \frac{1}{9}x + 1$

$9(-2x + \frac{2}{3}) = 9(\frac{1}{9}x + 1)$

$-18x + 6 = x + 9$

$-18x + 6 = x + 9 \rightarrow -19x \div (-19) = 3 \div (-19)$

$-18x - x = -6 + 9$

$-19x = 3$

$x = -\frac{3}{19}$

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

$18(\frac{2}{9}x - \frac{1}{6}) = 18(\frac{5}{6}x + \frac{1}{9})$

$4x - 3 = 15x + 2$

$4x - 3 = 15x + 2 \rightarrow -11x \div (-11) = 5 \div (-11)$

$4x - 15x = 3 + 2$

$-11x = 5$

$x = -\frac{5}{11}$

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

$10(-\frac{3}{5}x + 4) = 10(\frac{1}{2}x + 3)$

$-6x + 40 = 5x + 30$

$-6x + 40 = 5x + 30 \rightarrow -11x \div (-11) = -10 \div (-11)$

$-6x - 5x = -40 + 30$

$-11x = -10$

$x = \frac{10}{11}$

⑤ $-x - \frac{3}{7} = \frac{7}{2}x - 1$

$14(-x - \frac{3}{7}) = 14(\frac{7}{2}x - 1)$

$-14x - 6 = 49x - 14$

$-14x - 6 = 49x - 14$

$-14x - 49x = 4 - 14$

$-63x = -10$

$-63x \div (-63) = -10 \div (-63)$

$x = \frac{10}{63}$

⑥ $\frac{4}{9}x - \frac{1}{6} = \frac{1}{6}x - \frac{5}{6}$

$18(\frac{4}{9}x - \frac{1}{6}) = 18(\frac{1}{6}x - \frac{5}{6})$

$8x - 3 = 3x - 15$

$8x - 3 = 3x - 15$

$8x - 3x = 3 - 15$

$5x = -12$

$5x \div 5 = -12 \div 5$

$x = -\frac{12}{5}$

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

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

$-x + 24 = 2x + 30$

$-x + 24 = 2x + 30$

$-x - 2x = -24 + 30$

$-3x = 6$

$-3x \div (-3) = 6 \div (-3)$

$x = -2$