

数学科 方程式マスター F-⑥

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次の方程式を解きなさい。

① $-\frac{4}{5}x+2=\frac{2}{5}$

⑤ $-\frac{3}{8}x+1=\frac{3}{2}$

② $3x-\frac{5}{4}=-\frac{3}{2}$

⑥ $-3x-\frac{7}{3}=\frac{5}{3}$

③ $\frac{5}{4}x-\frac{5}{6}=1$

⑦ $\frac{3}{4}x-\frac{5}{4}=-\frac{5}{2}$

④ $\frac{3}{7}x-\frac{2}{7}=-\frac{1}{2}$

次の方程式を解きなさい。

① $-\frac{4}{5}x+2=\frac{2}{5}$

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

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

$-4x + 10 = 2$

$-4x = 2 - 10$

$-4x = -8$

$-4x \div (-4) = -8 \div (-4)$
 $x = 2$

② $3x - \frac{5}{4} = -\frac{3}{2}$

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

$12x + 4 \times (-\frac{5}{4}) = -6$

$12x - 5 = -6$

$12x = -6 + 5$

$12x = -1$

$12x \div 12 = -1 \div 12$
 $x = -\frac{1}{12}$

③ $\frac{5}{4}x - \frac{5}{6} = 1$

$12(\frac{5}{4}x - \frac{5}{6}) = 12 \times 1$

$12 \times \frac{5}{4}x + 12 \times (-\frac{5}{6}) = 12$

$15x - 10 = 12$

$15x = 12 + 10$

$15x = 22$

$15x \div 15 = 22 \div 15$
 $x = \frac{22}{15}$

④ $\frac{3}{7}x - \frac{2}{7} = -\frac{1}{2}$

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

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

$6x - 4 = -7$

$6x = -7 + 4$

$6x = -3$

$6x \div 6 = -3 \div 6$
 $x = -\frac{3}{6}$
 $x = -\frac{1}{2}$

⑤ $-\frac{3}{8}x + 1 = \frac{3}{2}$

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

$8 \times (-\frac{3}{8}x) + 8 = 12$

$-3x + 8 = 12$

$-3x = 12 - 8$

$-3x = 4$

$-3x \div (-3) = 4 \div (-3)$
 $x = -\frac{4}{3}$

⑥ $-3x - \frac{7}{3} = \frac{5}{3}$

$3(-3x - \frac{7}{3}) = 3 \times \frac{5}{3}$

$-9x + 3 \times (-\frac{7}{3}) = 5$

$-9x - 7 = 5$

$-9x = 5 + 7$

$-9x = 12$

$-9x \div (-9) = 12 \div (-9)$
 $x = -\frac{12}{9}$
 $x = -\frac{4}{3}$

⑦ $\frac{3}{4}x - \frac{5}{4} = -\frac{5}{2}$

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

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

$3x - 5 = -10$

$3x = -10 + 5$

$3x = -5$

$3x \div 3 = -5 \div 3$

$x = -\frac{5}{3}$