

数学科 方程式マスター F-⑦

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次の方程式を解きなさい。

① $-\frac{3}{5}x - 1 = \frac{4}{5}$

⑤ $\frac{5}{3}x - 1 = \frac{2}{5}$

② $-2x + \frac{2}{3} = \frac{1}{3}$

⑥ $-3x - \frac{5}{8} = \frac{5}{4}$

③ $-\frac{5}{2}x + \frac{3}{4} = -1$

⑦ $-\frac{5}{9}x + \frac{1}{9} = \frac{5}{9}$

④ $\frac{4}{5}x + \frac{6}{5} = \frac{6}{5}$

次の方程式を解きなさい。

① $-\frac{3}{5}x - 1 = \frac{4}{5}$

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

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

$-3x - 5 = 4$

$-3x = 4 + 5$

$-3x = 9$

$-3x \div (-3) = 9 \div (-3)$

$x = -3$

② $-2x + \frac{2}{3} = \frac{1}{3}$

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

$-6x + 2 = 1$

$-6x + 2 = 1$

$-6x = 1 - 2$

$-6x = -1$

$-6x \div (-6) = -1 \div (-6)$

$x = \frac{1}{6}$

③ $-\frac{5}{2}x + \frac{3}{4} = -1$

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

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

$-10x + 3 = -4$

$-10x = -4 - 3$

$-10x = -7$

$-10x \div (-10) = -7 \div (-10)$

$x = \frac{7}{10}$

④ $\frac{4}{5}x + \frac{6}{5} = \frac{6}{5}$

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

$5 \times \frac{4}{5}x + 5 \times \frac{6}{5} = 6$

$4x + 6 = 6$

$4x = 6 - 6$

$4x = 0$

$x = 0$

⑤ $\frac{5}{3}x - 1 = \frac{2}{5}$

$15(\frac{5}{3}x - 1) = 15 \times \frac{2}{5}$

$15 \times \frac{5}{3}x - 15 = 6$

$25x - 15 = 6$

$25x = 6 + 15$

$25x = 21$

$25x \div 25 = 21 \div 25$

$x = \frac{21}{25}$

⑥ $-3x - \frac{5}{8} = \frac{5}{4}$

$8(-3x - \frac{5}{8}) = 8 \times \frac{5}{4}$

$-24x + 8 \times (-\frac{5}{8}) = 10$

$-24x - 5 = 10$

$-24x = 10 + 5$

$-24x = 15$

$-24x \div (-24) = 15 \div (-24)$

$x = -\frac{15}{24}$

$x = -\frac{5}{8}$

⑦ $-\frac{5}{9}x + \frac{1}{9} = \frac{5}{9}$

$9(-\frac{5}{9}x + \frac{1}{9}) = 9 \times \frac{5}{9}$

$9 \times (-\frac{5}{9}x) + 9 \times \frac{1}{9} = 5$

$-5x + 1 = 5$

$-5x = 5 - 1$

$-5x = 4$

$-5x \div (-5) = 4 \div (-5)$

$x = -\frac{4}{5}$