

数学科 方程式マスター F-③

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次の方程式を解きなさい。

① $\frac{4}{7}x - 1 = \frac{2}{7}$

⑤ $-\frac{4}{7}x + 2 = \frac{1}{2}$

② $-2x - \frac{5}{9} = \frac{7}{9}$

⑥ $3x + \frac{7}{6} = \frac{3}{4}$

③ $-\frac{5}{8}x + \frac{5}{4} = -1$

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

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

次の方程式を解きなさい。

① $\frac{4}{7}x - 1 = \frac{2}{7}$

$7(\frac{4}{7}x - 1) = 7 \times \frac{2}{7}$

$4x - 7 = 2$

$4x - 7 = 2$

$4x = 2 + 7$

$4x = 9$

$4x \div 4 = 9 \div 4$

$x = \frac{9}{4}$

② $-2x - \frac{5}{9} = \frac{7}{9}$

$9(-2x - \frac{5}{9}) = 9 \times \frac{7}{9}$

$-18x - 5 = 7$

$-18x - 5 = 7$

$-18x = 7 + 5$

$-18x = 12$

$-18x \div (-18) = 12 \div (-18)$

$x = -\frac{12}{18}$

$x = -\frac{2}{3}$

③ $-\frac{5}{8}x + \frac{5}{4} = -1$

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

$-5x + 10 = -8$

$-5x + 10 = -8$

$-5x = -8 - 10$

$-5x = -18$

$-5x \div (-5) = -18 \div (-5)$

$x = \frac{18}{5}$

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

$2(-\frac{3}{2}x - \frac{7}{2}) = 2 \times \frac{5}{2}$

$-3x - 7 = 5$

$-3x - 7 = 5$

$-3x = 5 + 7$

$-3x = 12$

$-3x \div (-3) = 12 \div (-3)$

$x = -4$

⑤ $-\frac{4}{7}x + 2 = \frac{1}{2}$

$14(-\frac{4}{7}x + 2) = 14 \times \frac{1}{2}$

$-8x + 28 = 7$

$-8x + 28 = 7$

$-8x = 7 - 28$

$-8x = -21$

$-8x \div (-8) = -21 \div (-8)$

$x = \frac{21}{8}$

⑥ $3x + \frac{7}{6} = \frac{3}{4}$

$12(3x + \frac{7}{6}) = 12 \times \frac{3}{4}$

$36x + 14 = 9$

$36x + 14 = 9$

$36x = 9 - 14$

$36x = -5$

$36x \div 36 = -5 \div 36$

$x = -\frac{5}{36}$

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

$15(\frac{5}{3}x + \frac{6}{5}) = 15 \times \frac{6}{5}$

$5x + 18 = 18$

$5x + 18 = 18$

$5x = 18 - 18$

$5x = 0$

$x = 0$