

数学科 方程式マスター F-⑤

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次の方程式を解きなさい。

① $-\frac{2}{7}x - 2 = \frac{4}{7}$

⑤ $\frac{7}{8}x - 1 = -\frac{1}{8}$

② $-3x + \frac{7}{3} = -\frac{4}{9}$

⑥ $-3x - \frac{2}{9} = -\frac{5}{9}$

③ $\frac{7}{8}x + \frac{7}{4} = -1$

⑦ $-\frac{5}{8}x + \frac{5}{4} = \frac{5}{4}$

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

次の方程式を解きなさい。

① $-\frac{2}{7}x - 2 = \frac{4}{7}$

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

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

$-2x - 14 = 4$

$-2x = 4 + 14$

$-2x = 18$

$-2x \div (-2) = 18 \div (-2)$

$x = -9$

② $-3x + \frac{7}{3} = -\frac{4}{9}$

$9(-3x + \frac{7}{3}) = 9 \times (-\frac{4}{9})$

$-27x + 9 \times \frac{7}{3} = -4$

$-27x + 21 = -4$

$-27x = -4 - 21$

$-27x = -25$

$-27x \div (-27) = -25 \div (-27)$

$x = \frac{25}{27}$

③ $\frac{7}{8}x + \frac{7}{4} = -1$

$8(\frac{7}{8}x + \frac{7}{4}) = 8 \times (-1)$

$8 \times \frac{7}{8}x + 8 \times \frac{7}{4} = -8$

$7x + 14 = -8$

$7x = -8 - 14$

$7x = -22$

$7x \div 7 = -22 \div 7$

$x = -\frac{22}{7}$

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

$15(-\frac{6}{5}x + \frac{3}{5}) = 15 \times (-\frac{1}{3})$

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

$-18x + 9 = -5$

$-18x = -5 - 9$

$-18x = -14$

$-18x \div (-18) = -14 \div (-18)$

$x = \frac{14}{18}$

$x = \frac{7}{9}$

⑤ $\frac{7}{8}x - 1 = -\frac{1}{8}$

$8(\frac{7}{8}x - 1) = 8 \times (-\frac{1}{8})$

$8 \times \frac{7}{8}x - 8 = -1$

$7x - 8 = -1$

$7x = -1 + 8$

$7x = 7$

$7x \div 7 = 7 \div 7$

$x = 1$

⑥ $-3x - \frac{2}{9} = -\frac{5}{9}$

$9(-3x - \frac{2}{9}) = 9 \times (-\frac{5}{9})$

$-27x + 9 \times (-\frac{2}{9}) = -5$

$-27x - 2 = -5$

$-27x = -5 + 2$

$-27x = -3$

$-27x \div (-27) = -3 \div (-27)$

$x = \frac{3}{27}$

$x = \frac{1}{9}$

⑦ $-\frac{5}{8}x + \frac{5}{4} = \frac{5}{4}$

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

$8 \times (-\frac{5}{8}x) + 8 \times \frac{5}{4} = 10$

$-5x + 10 = 10$

$-5x = 10 - 10$

$-5x = 0$

$x = 0$