

数学科 方程式マスター F-④

()組()番 名前()

次の方程式を解きなさい。

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

$$\textcircled{5} \quad \frac{7}{9}x - 2 = -\frac{4}{9}$$

$$\textcircled{2} \quad 3x - \frac{5}{8} = \frac{7}{8}$$

$$\textcircled{6} \quad 3x + \frac{2}{5} = -\frac{4}{5}$$

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

$$\textcircled{7} \quad \frac{4}{9}x - \frac{5}{6} = \frac{1}{6}$$

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

次の方程式を解きなさい。

① $\frac{2}{3}x - 1 = \frac{1}{6}$

$6(\frac{2}{3}x - 1) = 6 \times \frac{1}{6}$

$8 \times \frac{2}{3}x - 6 = 1$

$4x - 6 = 1$

$4x = 1 + 6$

$4x = 7$

$4x \div 4 = 7 \div 4$

$x = \frac{7}{4}$

② $3x - \frac{5}{8} = \frac{7}{8}$

$8(3x - \frac{5}{8}) = 8 \times \frac{7}{8}$

$24x + 8 \times (-\frac{5}{8}) = 7$

$24x - 5 = 7$

$24x = 7 + 5$

$24x = 12$

$24x \div 24 = 12 \div 24$

$x = \frac{12}{24}$

$x = \frac{1}{2}$

③ $\frac{2}{5}x - \frac{1}{5} = 1$

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

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

$2x - 1 = 5$

$2x = 5 + 1$

$2x = 6$

$2x \div 2 = 6 \div 2$

$x = 3$

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

$6(-\frac{7}{6}x + \frac{4}{3}) = 6 \times \frac{5}{3}$

$8 \times (-\frac{7}{6}x) + 6 \times \frac{4}{3} = 10$

$-7x + 8 = 10$

$-7x = 10 - 8$

$-7x = 2$

$-7x \div (-7) = 2 \div (-7)$

$x = -\frac{2}{7}$

⑤ $\frac{7}{9}x - 2 = -\frac{4}{9}$

$9(\frac{7}{9}x - 2) = 9 \times (-\frac{4}{9})$

$9 \times \frac{7}{9}x - 18 = -4$

$7x - 18 = -4$

$7x = -4 + 18$

$7x = 14$

$7x \div 7 = 14 \div 7$

$x = 2$

⑥ $3x + \frac{2}{5} = -\frac{4}{5}$

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

$15x + 5 \times \frac{2}{5} = -4$

$15x + 2 = -4$

$15x = -4 - 2$

$15x = -6$

$15x \div 15 = -6 \div 15$

$x = -\frac{6}{15}$

⑦ $\frac{4}{9}x - \frac{5}{6} = \frac{1}{6}$

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

$18 \times \frac{4}{9}x + 18 \times (-\frac{5}{6}) = 3$

$8x - 15 = 3$

$8x = 3 + 15$

$8x = 18$

$8x \div 8 = 18 \div 8$

$x = \frac{18}{8}$

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