

数学科 方程式マスター E-⑤

( )組( )番 名前( )

次の方程式を解きなさい。

①  $x - \frac{7}{4} = -\frac{3}{4}$

②  $-x - \frac{2}{7} = -\frac{4}{7}$

③  $-x - \frac{3}{4} = \frac{9}{8}$

④  $x + \frac{7}{2} = \frac{7}{8}$

⑤  $-x + \frac{1}{2} = \frac{1}{4}$

⑥  $x - \frac{7}{2} = -\frac{5}{3}$

⑦  $-5x = \frac{5}{3}$

⑧  $4x = \frac{9}{2}$

⑨  $-\frac{x}{4} = 2$

⑩  $\frac{2}{3}x = -8$

⑪  $-\frac{x}{3} = -\frac{7}{6}$

⑫  $\frac{5}{6}x = -\frac{2}{5}$

次の方程式を解きなさい。

①  $x - \frac{7}{4} = -\frac{3}{4}$

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

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

$$x = 1$$

②  $-x - \frac{2}{7} = -\frac{4}{7}$

$$-x = -\frac{4}{7} + \frac{2}{7}$$

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

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

③  $-x - \frac{3}{4} = \frac{9}{8}$

$$8(-x - \frac{3}{4}) = 8 \times \frac{9}{8}$$

$$-8x + 8 \times (-\frac{3}{4}) = 9$$

$$-8x - 6 = 9$$

$$-8x = 9 + 6$$

$$-8x = 15$$

$$-8x \div (-8) = 15 \div (-8)$$

$$x = \frac{15}{8}$$

④  $x + \frac{7}{2} = \frac{7}{8}$

$$8(x + \frac{7}{2}) = 8 \times \frac{7}{8}$$

$$8x + 8 \times \frac{7}{2} = 7$$

$$8x + 28 = 7$$

$$8x = 7 - 28$$

$$8x = -21$$

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

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

⑤  $-x + \frac{1}{2} = \frac{1}{4}$

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

$$-4x + 4 \times \frac{1}{2} = 1$$

$$-4x + 2 = 1$$

$$-4x = 1 - 2$$

$$-4x = -1$$

$$-4x \div (-4) = -1 \div (-4)$$

$$x = \frac{1}{4}$$

⑥  $x - \frac{7}{2} = -\frac{5}{3}$

$$6(x - \frac{7}{2}) = 6 \times (-\frac{5}{3})$$

$$6x + 6 \times (-\frac{7}{2}) = -10$$

$$6x - 21 = -10$$

$$6x = -10 + 21$$

$$6x = 11$$

$$6x \div 6 = 11 \div 6$$

$$x = \frac{11}{6}$$

⑦  $-\frac{5x}{3} = \frac{5}{3}$

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

$$x = -\frac{1}{3}$$

⑧  $4x = \frac{9}{2}$

$$4x \times \frac{1}{4} = \frac{9}{2} \times \frac{1}{4}$$

$$x = \frac{9}{8}$$

⑨  $\frac{x}{4} = 2$

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

$$x = -8$$

⑩  $\frac{2}{3}x = -8$

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

$$x = -12$$

⑪  $\frac{x}{3} = -\frac{7}{6}$

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

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

⑫  $\frac{5}{6}x = -\frac{2}{5}$

$$\frac{5}{6}x \times \frac{6}{5} = -\frac{2}{5} \times \frac{6}{5}$$

$$x = -\frac{12}{25}$$