

数学科 方程式マスター E-⑦

( )組( )番 名前( )

次の方程式を解きなさい。

①  $x - \frac{1}{4} = -\frac{1}{4}$

⑦  $2x = \frac{3}{5}$

②  $-x + \frac{1}{9} = -\frac{1}{9}$

⑧  $-5x = -\frac{7}{3}$

③  $x + \frac{3}{4} = \frac{1}{8}$

⑨  $-\frac{x}{4} = 6$

④  $-x - \frac{7}{2} = \frac{1}{6}$

⑩  $\frac{4}{5}x = -3$

⑤  $x + \frac{5}{2} = -\frac{7}{3}$

⑪  $\frac{x}{3} = \frac{4}{9}$

⑥  $-x - \frac{5}{2} = \frac{5}{3}$

⑫  $-\frac{5}{4}x = \frac{2}{5}$

次の方程式を解きなさい。

①  $x - \frac{1}{4} = -\frac{1}{4}$

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

$$x = 0$$

②  $-x + \frac{1}{9} = -\frac{1}{9}$

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

$$-x = -\frac{2}{9}$$

$$x = \frac{2}{9}$$

③  $x + \frac{3}{4} = \frac{1}{8}$

$$8(x + \frac{3}{4}) = 8 \times \frac{1}{8}$$

$$8x + 8 \times \frac{3}{4} = 1$$

$$8x + 6 = 1$$

$$8x = 1 - 6$$

$$8x = -5$$

$$8x \div 8 = -5 \div 8$$

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

④  $-x - \frac{7}{2} = \frac{1}{6}$

$$6(-x - \frac{7}{2}) = 6 \times \frac{1}{6}$$

$$-6x + 6 \times (-\frac{7}{2}) = 1$$

$$-6x - 21 = 1$$

$$-6x = 1 + 21$$

$$-6x = 22$$

$$-6x \div (-6) = 22 \div (-6)$$

$$x = -\frac{22}{6}$$

$$x = -\frac{11}{3}$$

⑤  $x + \frac{5}{2} = -\frac{7}{3}$

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

$$6x + 6 \times \frac{5}{2} = -14$$

$$6x + 15 = -14$$

$$6x = -14 - 15$$

$$6x = -29$$

$$6x \div 6 = -29 \div 6$$

$$x = -\frac{29}{6}$$

⑥  $-x - \frac{5}{2} = \frac{5}{3}$

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

$$-6x + 6 \times (-\frac{5}{2}) = 10$$

$$-6x - 15 = 10$$

$$-6x = 10 + 15$$

$$-6x = 25$$

$$-6x \div (-6) = 25 \div (-6)$$

$$x = -\frac{25}{6}$$

⑦  $2x = \frac{3}{5}$

$$2x \times \frac{1}{2} = \frac{3}{5} \times \frac{1}{2}$$

$$x = \frac{3}{10}$$

⑧  $-5x = -\frac{7}{3}$

$$-5x \times (-\frac{1}{5}) = -\frac{7}{3} \times (-\frac{1}{5})$$

$$x = \frac{7}{15}$$

⑨  $\frac{x}{4} = 6$

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

$$x = -24$$

⑩  $\frac{4}{5}x = -3$

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

$$x = -\frac{15}{4}$$

⑪  $\frac{x}{3} = \frac{4}{9}$

$$\frac{x}{3} \times 3 = \frac{4}{9} \times 3$$

$$x = \frac{4}{3}$$

⑫  $-\frac{5}{4}x = \frac{2}{5}$

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

$$x = -\frac{8}{25}$$