

数学科 方程式マスター E-④

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次の方程式を解きなさい。

① $-x + \frac{1}{2} = \frac{9}{2}$

② $x - \frac{1}{8} = -\frac{5}{8}$

③ $x + \frac{7}{3} = -\frac{5}{6}$

④ $-x - \frac{4}{3} = -\frac{2}{9}$

⑤ $x - \frac{9}{4} = \frac{7}{2}$

⑥ $-x + \frac{5}{4} = \frac{2}{5}$

⑦ $5x = \frac{7}{2}$

⑧ $-2x = \frac{7}{3}$

⑨ $\frac{x}{3} = -5$

⑩ $-\frac{4}{3}x = 4$

⑪ $-\frac{x}{3} = -\frac{2}{9}$

⑫ $\frac{9}{4}x = -\frac{1}{3}$

次の方程式を解きなさい。

① $-x + \frac{1}{2} = \frac{9}{2}$

$$-x = \frac{9}{2} - \frac{1}{2}$$

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

$$-x = 4$$

$$x = -4 \#$$

② $x - \frac{1}{8} = -\frac{5}{8}$

$$x = -\frac{5}{8} + \frac{1}{8}$$

$$x = -\frac{4}{8}$$

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

③ $x + \frac{7}{3} = -\frac{5}{6}$

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

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

$$6x + 14 = -5$$

$$6x = -5 - 14$$

④ $-x - \frac{4}{3} = -\frac{2}{9}$

$$9(-x - \frac{4}{3}) = 9 \times (-\frac{2}{9})$$

$$-9x + 9 \times (-\frac{4}{3}) = -2$$

$$-9x - 12 = -2$$

$$-9x = -2 + 12$$

$$-9x = 10$$

$$-9x \div (-9) = 10 \div (-9)$$

$$x = -\frac{10}{9} \#$$

⑤ $x - \frac{9}{4} = \frac{7}{2}$

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

$$4x + 4 \times (-\frac{9}{4}) = 14$$

$$4x - 9 = 14$$

$$4x = 14 + 9$$

$$4x = 23$$

$$4x \div 4 = 23 \div 4$$

$$x = \frac{23}{4} \#$$

⑥ $-x + \frac{5}{4} = \frac{2}{5}$

$$20(-x + \frac{5}{4}) = 20 \times \frac{2}{5}$$

$$-20x + 20 \times \frac{5}{4} = 8$$

$$-20x + 25 = 8$$

$$-20x = 8 - 25$$

$$-20x = -17$$

$$-20x \div (-20) = -17 \div (-20)$$

$$x = \frac{17}{20} \#$$

⑦ $5x = \frac{7}{2}$

$$5x \times \frac{1}{5} = \frac{7}{2} \times \frac{1}{5}$$

$$x = \frac{7}{10} \#$$

⑧ $-2x = \frac{7}{3}$

$$-2x \times (-\frac{1}{2}) = \frac{7}{3} \times (-\frac{1}{2})$$

$$x = -\frac{7}{6} \#$$

⑨ $\frac{x}{3} = -5$

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

$$x = -15 \#$$

⑩ $-\frac{4}{3}x = 4$

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

$$x = -3 \#$$

⑪ $-\frac{x}{3} = -\frac{2}{9}$

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

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

⑫ $\frac{9}{4}x = -\frac{1}{3}$

$$\frac{9}{4}x \times \frac{4}{9} = -\frac{1}{3} \times \frac{4}{9}$$

$$x = -\frac{4}{27} \#$$