

一次方程式の解き方 I

NO.4

学習日 月 日

名前

/ 点

1

 次の方程式を解きなさい。

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

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

$$(3) \quad x + \frac{3}{4} = -\frac{1}{4}$$

$$(4) \quad x - \frac{5}{6} = -\frac{1}{3}$$

$$(5) \quad x + \frac{2}{5} = \frac{1}{3}$$

$$(6) \quad x - \frac{7}{8} = -\frac{1}{4}$$

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2

 次の方程式を解きなさい。

$$(1) \quad \frac{2}{3}x = 8$$

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

$$(3) \quad \frac{4}{7}x = -12$$

$$(4) \quad -\frac{5}{6}x = -10$$

$$(5) \quad \frac{3}{8}x = 9$$

$$(6) \quad -\frac{7}{4}x = 14$$

解答

1

$$\begin{aligned}
 (1) \quad x + \frac{1}{2} &= \frac{5}{2} \\
 x &= \frac{5}{2} - \frac{1}{2} \\
 x &= \frac{4}{2} = 2
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad x + \frac{3}{4} &= -\frac{1}{4} \\
 x &= -\frac{1}{4} - \frac{3}{4} \\
 x &= -\frac{4}{4} = -1
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad x + \frac{2}{5} &= \frac{1}{3} \\
 x &= \frac{1}{3} - \frac{2}{5} \\
 x &= \frac{5}{15} - \frac{6}{15} \\
 x &= -\frac{1}{15}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad x - \frac{2}{3} &= \frac{1}{3} \\
 x &= \frac{1}{3} + \frac{2}{3} \\
 x &= \frac{3}{3} = 1
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad x - \frac{5}{6} &= -\frac{1}{3} \\
 x &= -\frac{1}{3} + \frac{5}{6} \\
 x &= -\frac{2}{6} + \frac{5}{6} \\
 x &= \frac{3}{6} = \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad x - \frac{7}{8} &= -\frac{1}{4} \\
 x &= -\frac{1}{4} + \frac{7}{8} \\
 x &= -\frac{2}{8} + \frac{7}{8} \\
 x &= \frac{5}{8}
 \end{aligned}$$

2

$$\begin{aligned}
 (1) \quad \frac{2}{3}x &= 8 \\
 x &= 8 \times \frac{3}{2} \\
 x &= 12
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad \frac{4}{7}x &= -12 \\
 x &= -12 \times \frac{7}{4} \\
 x &= -21
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad \frac{3}{8}x &= 9 \\
 x &= 9 \times \frac{8}{3} \\
 x &= 24
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad -\frac{3}{5}x &= 9 \\
 x &= 9 \times \left(-\frac{5}{3}\right) \\
 x &= -15
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad -\frac{5}{6}x &= -10 \\
 x &= -10 \times \left(-\frac{6}{5}\right) \\
 x &= 12
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad -\frac{7}{4}x &= 14 \\
 x &= 14 \times \left(-\frac{4}{7}\right) \\
 x &= -8
 \end{aligned}$$