

方程式（方程式の解き方③）

組 番 名前

1 次の方程式を解きなさい。

① $3x - 14 = x$

$$\begin{aligned} 2x &= 14 \\ x &= 7 \end{aligned}$$

② $9 + x = 4x$

$$\begin{aligned} -3x &= -9 \\ x &= 3 \end{aligned}$$

③ $18 - 9x = -6x$

$$\begin{aligned} -3x &= -18 \\ x &= 6 \end{aligned}$$

④ $4x - 3 = 2x + 5$

$$\begin{aligned} 2x &= 8 \\ x &= 4 \end{aligned}$$

⑤ $7 - 3x = 3x - 11$

$$\begin{aligned} -6x &= -18 \\ x &= 3 \end{aligned}$$

⑥ $-2x + 19 = -11x - 26$

$$\begin{aligned} 9x &= 45 \\ x &= 5 \end{aligned}$$

⑦ $30 - 6x = x - 19$

$$\begin{aligned} -7x &= -49 \\ x &= 7 \end{aligned}$$

⑧ $11x + 17 = -7 - x$

$$\begin{aligned} 12x &= -24 \\ x &= -2 \end{aligned}$$

⑨ $10 - 9x = 6 - 5x$

$$\begin{aligned} -4x &= -4 \\ x &= 1 \end{aligned}$$

2 次の方程式を解きなさい。

① $0.4x = 0.9x + 1.5$

$$\begin{aligned} 4x &= 9x + 15 \\ -5x &= 15 \\ x &= -3 \end{aligned}$$

両辺
×10

② $0.5x - 0.8 = 0.1x$

$$\begin{aligned} 5x - 8 &= x \\ 4x &= 8 \\ x &= 2 \end{aligned}$$

③ $0.6x + 3 = 1.3x - 1.9$

$$\begin{aligned} 6x + 30 &= 13x - 19 \\ -7x &= -49 \\ x &= 7 \end{aligned}$$

④ $0.12x - 0.05 = 0.09x - 0.2$

$$\begin{aligned} 12x - 5 &= 9x - 20 \\ 3x &= -15 \\ x &= -5 \end{aligned}$$

両辺
×100

3 次の2つの式に同じ x の値を代入したところ、2つの式の値は等しくなった。代入した x の値を求めなさい。

$3x - 5$, $x - 9$

$$\begin{aligned} 3x - 5 &= x - 9 \\ 2x &= -4 \\ x &= -2 \end{aligned}$$