

1次方程式の解き方4

NO. 2

名前

/6 点

◆ 次の方程式を解きなさい。

$$(1) \quad 2x - 7 = 5(x + 4)$$

$$(2) \quad 2(x - 4) = 8x - 26$$

$$(3) \quad -4(2 + x) = 3(5 - x)$$

$$(4) \quad 9 - 2(5x - 3) = 11$$

$$(5) \quad 20x = 50(x - 3)$$

$$(6) \quad -9(2 + x) = 10(3 - x)$$

解答

$$\begin{aligned}
 (1) \quad 2x - 7 &= 5(x + 4) \\
 2x - 7 &= 5x + 20 \\
 2x - 5x &= 20 + 7 \\
 -3x &= 27 \\
 x &= -9
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad 2(x - 4) &= 8x - 26 \\
 2x - 8 &= 8x - 26 \\
 2x - 8x &= -26 + 8 \\
 -6x &= -18 \\
 x &= 3
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad -4(2 + x) &= 3(5 - x) \\
 -8 - 4x &= 15 - 3x \\
 -4x + 3x &= 15 + 8 \\
 -x &= 23 \\
 x &= -23
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad 9 - 2(5x - 3) &= 11 \\
 9 - 10x + 6 &= 11 \\
 -10x &= 11 - 9 - 6 \\
 -10x &= -4 \\
 x &= \frac{4}{10} = \frac{2}{5}
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad 20x &= 50(x - 3) \\
 2x &= 5(x - 3) \\
 2x &= 5x - 15 \\
 2x - 5x &= -15 \\
 -3x &= -15 \\
 x &= 5
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad -9(2 + x) &= 10(3 - x) \\
 -18 - 9x &= 30 - 10x \\
 -9x + 10x &= 30 + 18 \\
 1x &= 48 \\
 x &= 48
 \end{aligned}$$