

1次方程式の解き方4

NO. 1

名前

/6 点

◆ 次の方程式を解きなさい。

$$(1) \quad 6x - 8 = 4(x + 2)$$

$$(2) \quad 5(x - 6) = 3x - 22$$

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

$$(4) \quad 7 - 3(5x - 2) = 6$$

$$(5) \quad 30x = 40(x - 5)$$

$$(6) \quad -8(6 + x) = 9(4 - x)$$

解答

$$\begin{aligned}
 (1) \quad 6x - 8 &= 4(x + 2) \\
 6x - 8 &= 4x + 8 \\
 6x - 4x &= 8 + 8 \\
 2x &= 16 \\
 x &= 8
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad 5(x - 6) &= 3x - 22 \\
 5x - 30 &= 3x - 22 \\
 5x - 3x &= -22 + 30 \\
 2x &= 8 \\
 x &= 4
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad -4(5 + x) &= 3(4 - x) \\
 -20 - 4x &= 12 - 3x \\
 -4x + 3x &= 12 + 20 \\
 -x &= 32 \\
 x &= -32
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad 7 - 3(5x - 2) &= 6 \\
 7 - 15x + 6 &= 6 \\
 -15x &= 6 - 7 - 6 \\
 -15x &= -7 \\
 x &= \frac{7}{15}
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad 30x &= 40(x - 5) \\
 3x &= 4(x - 5) \\
 3x &= 4x - 20 \\
 3x - 4x &= -20 \\
 -x &= -20 \\
 x &= 20
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad -8(6 + x) &= 9(4 - x) \\
 -48 - 8x &= 36 - 9x \\
 -8x + 9x &= 36 + 48 \\
 x &= 84 \\
 x &= 84
 \end{aligned}$$