
一次方程式の解き方 (かっこを外す)

NO.2

学習日 月 日

名前

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点

■ 次の方程式を解きなさい。

$$(1) \quad 7x - 5 = 3(x + 5)$$

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

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

$$(4) \quad 5 - 2(2x - 3) = 8$$

$$(5) \quad 5x = 8(x - 3)$$

$$(6) \quad -6(5 + x) = 8(3 - x)$$

解答

$$\begin{aligned}
 (1) \quad 7x - 5 &= 3(x + 5) \\
 7x - 5 &= 3x + 15 \\
 7x - 3x &= 15 + 5 \\
 4x &= 20 \\
 x &= 5
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad 4(x - 7) &= 2x - 6 \\
 4x - 28 &= 2x - 6 \\
 4x - 2x &= -6 + 28 \\
 2x &= 22 \\
 x &= 11
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad -5(3 + x) &= 2(6 - x) \\
 -15 - 5x &= 12 - 2x \\
 -5x + 2x &= 12 + 15 \\
 -3x &= 27 \\
 x &= -9
 \end{aligned}$$

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

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

$$\begin{aligned}
 (6) \quad -6(5 + x) &= 8(3 - x) \\
 -30 - 6x &= 24 - 8x \\
 -6x + 8x &= 24 + 30 \\
 2x &= 54 \\
 x &= 27
 \end{aligned}$$