

## 方程式 [いろいろな1次方程式(1)]

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<演習問題>

次の方程式を解け。

(1)  $2(x - 1) = x + 2$

(2)  $3(x - 1) = x - 5$

(3)  $2x + 4 = 4(x - 3)$

(4)  $7 - x = 5(x - 1)$

(5)  $3x - 2 = 4(3 - x)$

(6)  $3(x - 7) = 2(x + 5)$

(7)  $4(x - 4) = 5(x + 8)$

(8)  $3(x + 2) = 4(2x + 1) + 17$

(9)  $7(3x + 4) = 3(2x - 5) - 17$

(10)  $8(3x + 2) = 40$

(11)  $6(3x + 4) = 24$

(12)  $5(3 - 2x) = 25$

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### <演習問題>

次の方程式を解け。

$$(1) \quad 2(x - 1) = x + 2$$

$$2(x - 1) = x + 2$$

$$2x - 2 = x + 2$$

$$2x - x = 2 + 2$$

$$x = 4$$

$$(2) \quad 3(x - 1) = x - 5$$

$$3(x - 1) = x - 5$$

$$3x - 3 = x - 5$$

$$3x - x = -5 + 3$$

$$2x = -2$$

$$x = -1$$

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

$$2x + 4 = 4(x - 3)$$

$$2x + 4 = 4x - 12$$

$$2x - 4x = -12 - 4$$

$$-2x = -16$$

$$x = 8$$

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

$$7 - x = 5(x - 1)$$

$$7 - x = 5x - 5$$

$$-x - 5x = -5 - 7$$

$$-6x = -12$$

$$x = 2$$

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

$$3x - 2 = 4(3 - x)$$

$$3x - 2 = 12 - 4x$$

$$3x + 4x = 12 + 2$$

$$7x = 14$$

$$x = 2$$

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

$$3(x - 7) = 2(x + 5)$$

$$3x - 21 = 2x + 10$$

$$3x - 2x = 10 + 21$$

$$x = 31$$

$$(7) \quad 4(x - 4) = 5(x + 8)$$

$$4(x - 4) = 5(x + 8)$$

$$4x - 16 = 5x + 40$$

$$4x - 5x = 40 + 16$$

$$-x = 56$$

$$x = -56$$

$$(8) \quad 3(x + 2) = 4(2x + 1) + 17$$

$$3(x + 2) = 4(2x + 1) + 17$$

$$3x + 6 = 8x + 4 + 17$$

$$3x - 8x = 4 + 17 - 6$$

$$-5x = 15$$

$$x = -3$$

$$(9) \quad 7(3x + 4) = 3(2x - 5) - 17$$

$$7(3x + 4) = 3(2x - 5) - 17$$

$$21x + 28 = 6x - 15 - 17$$

$$21x - 6x = -15 - 17 - 28$$

$$15x = -60$$

$$x = -4$$

$$(10) \quad 8(3x + 2) = 40$$

$$8(3x + 2) = 40$$

$$3x + 2 = 5$$

$$3x = 5 - 2$$

$$3x = 3$$

$$x = 1$$

$$(11) \quad 6(3x + 4) = 24$$

$$6(3x + 4) = 24$$

$$3x + 4 = 4$$

$$3x = 4 - 4$$

$$3x = 0$$

$$x = 0$$

$$(12) \quad 5(3 - 2x) = 25$$

$$5(3 - 2x) = 25$$

$$3 - 2x = 5$$

$$-2x = 5 - 3$$

$$-2x = 2$$

$$x = -1$$