

# 高校入試計算練習 基本

**NO. 5**

名前
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／12 点

1 次の計算をしなさい。

(1)  $-7 - (-8) + 2$       (2)  $-2 \div 6 \times (-9)$

(3)  $(-3)^2 + 24 \times (-6)$

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

(5)  $10a^2 \times (-6b^2) \div 4ab$

(6)  $\sqrt{21} \div \sqrt{7} + \sqrt{12}$

(7)  $(4 - x)(4 + x)$

(8)  $x^2 - x - 20$       (因数分解しなさい)

2 次の方程式を解きなさい

(1)  $-\frac{4}{7}x = 3.6$

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

(3) 
$$\begin{cases} 6x - 5y = 14 \\ 4x + 7y = 41 \end{cases}$$

(4)  $x^2 + 4x = 12$

# 解答

1

$$(1) \quad 3 \qquad (2) \quad 3$$

$$(3) \quad 9 - 4 = 5$$

$$(4) \quad 8x - 4y + 3x - 12y \\ = 11x - 16y$$

$$(5) \quad \frac{-60 a^2 b^2}{4 a b} = -15 ab$$

$$(6) \quad \sqrt{3} + 2\sqrt{3} = 3\sqrt{3}$$

$$(7) \quad 16 - x^2$$

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

2

$$(1) \quad 4x = -25.2 \\ x = -6.3$$

$$(2) \quad 6 - 2x = 21 + 3x \\ -5x = 15 \\ x = -3$$

$$(4) \quad \begin{cases} 6x - 5y = 15 & \dots\text{①} \\ 4x + 7y = 41 & \dots\text{②} \end{cases}$$

$$12x - 10y = 30$$

$$- ) \quad 12x + 21y = 123$$


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$$- 31y = -93$$

$$y = 3$$

$y = 3$  を①に代入して,

$$6x - 15 = 15$$

$$6x = 30$$

$$x = 5 \quad (x, y) = (5, 3)$$

$$(4) \quad x^2 + 4x - 12 = 0$$

$$(x + 6)(x - 2) = 0 \quad x = -6, 2$$