

## 高校入試計算練習 基本

NO. 5

名前

／12 点

1 次の計算をしなさい。

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

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

(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)  $\begin{cases} 6x - 5y = 15 \\ 4x + 7y = 41 \end{cases}$

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

## 解答

1

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

(3)  $9 - 4 = 5$

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

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

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

(7)  $16 - x^2$

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

2

(1)  $4x = -25.2$

$x = -6.3$

(2)  $6 - 2x = 21 + 3x$

$-5x = 15$

$x = -3$

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

$12x - 10y = 30$

$$\begin{array}{r} - ) 12x + 21y = 123 \\ \hline - 31y = -93 \end{array}$$

$y = 3$

 $y = 3$  を①に代入して,

$6x - 15 = 15$

$6x = 30$

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

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

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