

高校入試計算練習 基本

NO. 4

名前

／12 点

1 次の計算をなさい。

(1) $-1 - (-3) + 5$ (2) $3 - (-2) \times 5$

(3) $-3^2 + 6 \times (-1)^2$

(4) $5x(x - 4) - 2x(2x + 5)$

(5) $4a \times 3b^2 \div 6ab$

(6) $4\sqrt{3} \div \sqrt{6} \times 5\sqrt{6}$

(7) $(3x - 5)^2$

(8) $x^2 + 0.2x + 0.01$ (因数分解しなさい)

2 次の方程式を解きなさい

(1) $\frac{2}{5}x = \frac{8}{15}$

(2) $4 - 2x = 8(2 - 5x)$

(3)
$$\begin{cases} 3x - 4y = 10 \\ 5x + 2y = 8 \end{cases}$$

(4) $x^2 - 9x = 0$

解答

1

(1) 7 (2) 13

(3) $-9 + 6 = -3$

(4) $5x^2 - 20x - 4x^2 - 10x$
 $= x^2 - 30x$

(5) $\frac{12ab^2}{6ab} = 2b$

(6) $\frac{20\sqrt{18}}{\sqrt{6}}$
 $= 20\sqrt{3}$

(7) $9x^2 - 30x + 25$

(8) $(x + 0.1)^2$

2

(1) $6x = 8$
 $x = \frac{4}{3}$

(2) $4 - 2x = 16 - 40x$
 $38x = 12$
 $x = \frac{6}{19}$

(4) $\begin{cases} 3x - 4y = 10 & \dots\text{①} \\ 5x + 2y = 8 & \dots\text{②} \end{cases}$

$15x - 27y = -63$

$+) 15x + 40y = 130$

$- 67y = 67$

$y = -1$

$y = -1$ を①に代入して,

$3x + 4 = 10$

$3x = 6$

$x = 2$

$(x, y) = (2, -1)$

(4) $x(x - 9)$

$x = 0, 9$