

高校入試 計算練習 1、2年生の問題

NO.2

名前

／10 点

1 次の計算をなさい。

① $6 - (-2)$

② $-\frac{1}{2} + (-\frac{3}{8})$

③ $9 + 4 \times (-5)$

④ $8 - 3 \times (-2)^2$

⑤ $12a^2b^2 \div (-2a)^2$

⑥ $6a - 2(5 - 2a)$

⑦ $4(2x - y) + 3(x - 2y)$

2 次の方程式を解きなさい

① $6x + 11 = -5 + 2x$

② $-5x + 4 = 2(x - 11)$

③
$$\begin{cases} y = -2x + 1 \\ 3x - 2y = 5 \end{cases}$$

解答

1

$$\textcircled{1} \quad 6 + 2 = 8$$

$$\textcircled{2} \quad -\frac{4}{8} - \frac{3}{8} = -\frac{7}{8}$$

$$\textcircled{3} \quad 9 + (-20) = -11$$

$$\textcircled{4} \quad \begin{aligned} & 8 - 3 \times 4 \\ &= 8 - 12 = -4 \end{aligned}$$

$$\textcircled{5} \quad \frac{12a^2b^2}{4a^2} = 3b^2$$

$$\textcircled{6} \quad 6a - 10 + 4a = 10a - 10$$

$$\textcircled{7} \quad 8x - 4y + 3x - 6y = 11x - 10y$$

2

$$\textcircled{1} \quad \begin{aligned} 4x &= -16 \\ x &= -4 \end{aligned}$$

$$\textcircled{2} \quad \begin{aligned} -5x + 4 &= 2x - 22 \\ -7x &= -26 \\ x &= \frac{26}{7} \end{aligned}$$

$$\textcircled{3} \quad \begin{cases} y = -2x + 1 & \dots\textcircled{1} \\ 3x - 2y = 5 & \dots\textcircled{2} \end{cases}$$

①を②に代入

$$\begin{aligned} 3x - 2(-2x + 1) &= 5 \\ 3x + 4x - 2 &= 5 \\ 7x &= 7 \\ x &= 1 \end{aligned}$$

$$\textcircled{1} \text{に代入} \quad y = -2 + 1 = -1 \quad \underline{x = 1, y = -1}$$