

1. 다음 안에 알맞은 식은?

$$-\left[4x-2y-\left\{x-\left(3x+\square\right)\right\}+5y\right]=-6x-7y$$

- ① $4y$ ② $-4y$ ③ $3y$ ④ $-3y$ ⑤ y

해설

$$\begin{aligned}& -\left[4x-2y-\left\{x-\left(3x+\square\right)\right\}+5y\right] \\&= -\left\{4x-2y-\left(x-3x-\square\right)+5y\right\} \\&= -\left\{4x-2y-\left(-2x-\square\right)+5y\right\} \\&= -\left(4x-2y+2x+\square+5y\right) \\&= -\left(6x+3y+\square\right) \\&= -6x-3y-\square \\&= -6x-7y \\&\therefore \square = -6x-3y+6x+7y = 4y\end{aligned}$$

2. 다음 중 $7x - \{2y - (3x - y) + (-5x + 4y)\} - 3y$ 를 바르게 정리한 것을 고르면?

① $15x - 10y$

② $15x + 10y$

③ $3x - 2y$

④ $5x + 10y$

⑤ $3x + 8y$

해설

$$\begin{aligned}(\text{준식}) &= 7x - \{2y - 3x + y - 5x + 4y\} - 3y \\&= 7x - \{7y - 8x\} - 3y \\&= 7x - 7y + 8x - 3y \\&= 15x - 10y\end{aligned}$$