

## 分数をふくむ単項式と数との計算

次の計算をしましょう。

$$\textcircled{1} \quad \frac{7x - y}{9} + \frac{6x - y}{5}$$

$$\textcircled{2} \quad \frac{6x - y}{3} + \frac{x - 5y}{7}$$

$$\textcircled{3} \quad \frac{-x + 6y}{3} - \frac{2x - y}{4}$$

$$\textcircled{4} \quad \frac{5x - y}{5} - \frac{2x - y}{9}$$

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$$\begin{aligned}\textcircled{1} \quad & \frac{7x-y}{9} + \frac{6x-y}{5} \\ &= \frac{5(7x-y) + 9(6x-y)}{45} \\ &= \frac{35x - 5y + 54x - 9y}{45} \\ &= \frac{89x - 14y}{45}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \frac{6x-y}{3} + \frac{x-5y}{7} \\ &= \frac{7(6x-y) + 3(x-5y)}{21} \\ &= \frac{42x - 7y + 3x - 15y}{21} \\ &= \frac{45x - 22y}{21}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \frac{-x+6y}{3} - \frac{2x-y}{4} \\ &= \frac{4(-x+6y) - 3(2x-y)}{12} \\ &= \frac{-4x + 24y - 6x + 3y}{12} \\ &= \frac{-10x + 27y}{12}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \frac{5x-y}{5} - \frac{2x-y}{9} \\ &= \frac{9(5x-y) - 5(2x-y)}{45} \\ &= \frac{45x - 9y - 10x + 5y}{45} \\ &= \frac{35x - 4y}{45}\end{aligned}$$