

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。

$$\textcircled{1} \quad \frac{8x - y}{5} + \frac{3x - y}{2}$$

$$\textcircled{2} \quad \frac{7x - y}{2} + \frac{x - 9y}{9}$$

$$\textcircled{3} \quad \frac{-x + 9y}{6} - \frac{9x - y}{4}$$

$$\textcircled{4} \quad \frac{5x - y}{3} - \frac{4x - y}{5}$$

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$$\begin{aligned}\textcircled{1} \quad & \frac{8x-y}{5} + \frac{3x-y}{2} \\ &= \frac{2(8x-y) + 5(3x-y)}{10} \\ &= \frac{16x - 2y + 15x - 5y}{10} \\ &= \frac{31x - 7y}{10}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \frac{7x-y}{2} + \frac{x-9y}{9} \\ &= \frac{9(7x-y) + 2(x-9y)}{18} \\ &= \frac{63x - 9y + 2x - 18y}{18} \\ &= \frac{65x - 27y}{18}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \frac{-x+9y}{6} - \frac{9x-y}{4} \\ &= \frac{2(-x+9y) - 3(9x-y)}{12} \\ &= \frac{-2x + 18y - 27x + 3y}{12} \\ &= \frac{-29x + 21y}{12}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \frac{5x-y}{3} - \frac{4x-y}{5} \\ &= \frac{5(5x-y) - 3(4x-y)}{15} \\ &= \frac{25x - 5y - 12x + 3y}{15} \\ &= \frac{13x - 2y}{15}\end{aligned}$$