

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。

$$\textcircled{1} \quad \frac{4x - y}{8} + \frac{3x - y}{5}$$

$$\textcircled{2} \quad \frac{2x - y}{5} + \frac{x - 9y}{6}$$

$$\textcircled{3} \quad \frac{-x + 9y}{9} - \frac{7x - y}{4}$$

$$\textcircled{4} \quad \frac{8x - y}{5} - \frac{2x - y}{9}$$

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$$\begin{aligned}\textcircled{1} \quad & \frac{4x-y}{8} + \frac{3x-y}{5} \\ &= \frac{5(4x-y) + 8(3x-y)}{40} \\ &= \frac{20x - 5y + 24x - 8y}{40} \\ &= \frac{44x - 13y}{40}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \frac{2x-y}{5} + \frac{x-9y}{6} \\ &= \frac{6(2x-y) + 5(x-9y)}{30} \\ &= \frac{12x - 6y + 5x - 45y}{30} \\ &= \frac{17x - 51y}{30}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \frac{-x+9y}{9} - \frac{7x-y}{4} \\ &= \frac{4(-x+9y) - 9(7x-y)}{36} \\ &= \frac{-4x + 36y - 63x + 9y}{36} \\ &= \frac{-67x + 45y}{36}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \frac{8x-y}{5} - \frac{2x-y}{9} \\ &= \frac{9(8x-y) - 5(2x-y)}{45} \\ &= \frac{72x - 9y - 10x + 5y}{45} \\ &= \frac{62x - 4y}{45}\end{aligned}$$