

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。

$$\textcircled{1} \quad \frac{4x - y}{2} + \frac{8x - y}{5}$$

$$\textcircled{2} \quad \frac{5x - y}{3} + \frac{x - 2y}{4}$$

$$\textcircled{3} \quad \frac{-x + 8y}{6} - \frac{4x - y}{4}$$

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

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$$\begin{aligned}\textcircled{1} \quad & \frac{4x-y}{2} + \frac{8x-y}{5} \\ &= \frac{5(4x-y) + 2(8x-y)}{10} \\ &= \frac{20x - 5y + 16x - 2y}{10} \\ &= \frac{36x - 7y}{10}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad & \frac{5x-y}{3} + \frac{x-2y}{4} \\ &= \frac{4(5x-y) + 3(x-2y)}{12} \\ &= \frac{20x - 4y + 3x - 6y}{12} \\ &= \frac{23x - 10y}{12}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad & \frac{-x+8y}{6} - \frac{4x-y}{4} \\ &= \frac{2(-x+8y) - 3(4x-y)}{12} \\ &= \frac{-2x + 16y - 12x + 3y}{12} \\ &= \frac{-14x + 19y}{12}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad & \frac{5x-y}{2} - \frac{2x-y}{9} \\ &= \frac{9(5x-y) - 2(2x-y)}{18} \\ &= \frac{45x - 9y - 4x + 2y}{18} \\ &= \frac{41x - 7y}{18}\end{aligned}$$