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次の計算をしなさい。

$$\textcircled{1} \quad \frac{5x + 3y}{4} + \frac{2x + 7y}{3}$$

$$\textcircled{2} \quad \frac{9x + 2y}{7} + \frac{6x - 8y}{5}$$

$$\textcircled{3} \quad \frac{4x + 7y}{9} - \frac{5x + 3y}{2}$$

$$\textcircled{4} \quad \frac{8x - 5y}{6} + \frac{2x - 9y}{8}$$

$$\textcircled{5} \quad \frac{2x + 4y}{5} - \frac{7x - 6y}{3}$$

$$\textcircled{6} \quad \frac{8x - 9y}{4} - \frac{5x - 2y}{7}$$

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次の計算をしなさい。

$$\begin{aligned} \textcircled{1} \quad & \frac{5x+3y}{4} + \frac{2x+7y}{3} \\ &= \frac{3(5x+3y) + 4(2x+7y)}{12} \\ &= \frac{15x+9y+8x+28y}{12} \\ &= \frac{23x+37y}{12} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \frac{9x+2y}{7} + \frac{6x-8y}{5} \\ &= \frac{5(9x+2y) + 7(6x-8y)}{35} \\ &= \frac{45x+10y+42x-56y}{35} \\ &= \frac{87x-46y}{35} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{4x+7y}{9} - \frac{5x+3y}{2} \\ &= \frac{2(4x+7y) - 9(5x+3y)}{18} \\ &= \frac{8x+14y-45x-27y}{18} \\ &= \frac{-37x-13y}{18} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{8x-5y}{6} + \frac{2x-9y}{8} \\ &= \frac{4(8x-5y) + 3(2x-9y)}{24} \\ &= \frac{32x-20y+6x-27y}{24} \\ &= \frac{38x-47y}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & \frac{2x+4y}{5} - \frac{7x-6y}{3} \\ &= \frac{3(2x+4y) - 5(7x-6y)}{15} \\ &= \frac{6x+12y-35x+30y}{15} \\ &= \frac{-29x+42y}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & \frac{8x-9y}{4} - \frac{5x-2y}{7} \\ &= \frac{7(8x-9y) - 4(5x-2y)}{28} \\ &= \frac{56x-63y-20x+8y}{28} \\ &= \frac{36x-55y}{28} \end{aligned}$$