

多項式の計算

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■ 次の計算をなさい。

$$\textcircled{1} \frac{4x+5y}{3} + \frac{x-3y}{15}$$

$$\textcircled{6} \frac{5a+7b}{4} + \frac{4a+7b}{3}$$

$$\textcircled{2} \frac{3x+2y}{3} - \frac{x+2y}{12}$$

$$\textcircled{7} \frac{7a-4b}{10} - \frac{a+6b}{4}$$

$$\textcircled{3} \frac{7x-5y}{8} - \frac{3x-5y}{16}$$

$$\textcircled{8} \frac{5x+y}{2} + \frac{2x-7y}{4}$$

$$\textcircled{4} \frac{7x-y}{16} + \frac{x+5y}{4}$$

$$\textcircled{9} \frac{x-4y}{8} + \frac{6x+7y}{4}$$

$$\textcircled{5} \frac{5a-3b}{4} - 2a-3b$$

$$\textcircled{10} \frac{3x-4y}{20} - \frac{5x-4y}{4}$$

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$$\begin{aligned} \textcircled{1} \quad \frac{4x+5y}{3} + \frac{x-3y}{15} &= \frac{5(4x+5y) + (x-3y)}{15} \\ &= \frac{21x+22y}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad \frac{3x+2y}{3} - \frac{x+2y}{12} &= \frac{4(3x+2y) - (x+2y)}{12} \\ &= \frac{11x+6y}{12} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{7x-5y}{8} - \frac{3x-5y}{16} &= \frac{2(7x-5y) - (3x-5y)}{16} \\ &= \frac{11x-5y}{16} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{7x-y}{16} + \frac{x+5y}{4} &= \frac{(7x-y) + 4(x+5y)}{16} \\ &= \frac{11x+19y}{16} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{5a-3b}{4} - 2a-3b &= \frac{(5a-3b) - 4(2a-3b)}{4} \\ &= \frac{-3a+9b}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{5a+7b}{4} + \frac{4a+7b}{3} &= \frac{3(5a+7b) + 4(4a+7b)}{12} \\ &= \frac{31a+49b}{12} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad \frac{7a-4b}{10} - \frac{a+6b}{4} &= \frac{2(7a-4b) - 5(a+6b)}{20} \\ &= \frac{9a-38b}{20} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad \frac{5x+y}{2} + \frac{2x-7y}{4} &= \frac{2(5x+y) + (2x-7y)}{4} \\ &= \frac{12x-5y}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad \frac{x-4y}{8} + \frac{6x+7y}{4} &= \frac{(x-4y) + 2(6x+7y)}{8} \\ &= \frac{13x+10y}{8} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad \frac{3x-4y}{20} - \frac{5x-4y}{4} &= \frac{(3x-4y) - 5(5x-4y)}{20} \\ &= \frac{-22x+16y}{20} \\ &= \frac{-11x+8y}{10} \end{aligned}$$