

多項式の計算

年 組 名前

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■ 次の計算をなさい。

$$\textcircled{1} \frac{5x+y}{10} - \frac{3x-4y}{2}$$

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

$$\textcircled{2} \frac{7x-2y}{18} + \frac{3x-7y}{9}$$

$$\textcircled{7} \frac{x+6y}{16} - \frac{7x+6y}{4}$$

$$\textcircled{3} \frac{2a-5b}{20} + \frac{5a+4b}{4}$$

$$\textcircled{8} \frac{3x-y}{4} + \frac{4x-3y}{2}$$

$$\textcircled{4} \frac{x+2y}{24} - \frac{2x+3y}{4}$$

$$\textcircled{9} \frac{4x-y}{24} - \frac{4x-7y}{6}$$

$$\textcircled{5} \frac{3x+5y}{8} + \frac{2x-y}{24}$$

$$\textcircled{10} \frac{4a+5b}{12} + \frac{a+7b}{3}$$

■ 次の計算をなさい。

$$\begin{aligned}\textcircled{1} \quad \frac{5x+y}{10} - \frac{3x-4y}{2} &= \frac{(5x+y)-5(3x-4y)}{10} \\ &= \frac{-10x+21y}{10}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad \frac{7x-2y}{18} + \frac{3x-7y}{9} &= \frac{(7x-2y)+2(3x-7y)}{18} \\ &= \frac{13x-16y}{18}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad \frac{2a-5b}{20} + \frac{5a+4b}{4} &= \frac{(2a-5b)+5(5a+4b)}{20} \\ &= \frac{27a+15b}{20}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad \frac{x+2y}{24} - \frac{2x+3y}{4} &= \frac{(x+2y)-6(2x+3y)}{24} \\ &= \frac{-11x-16y}{24}\end{aligned}$$

$$\begin{aligned}\textcircled{5} \quad \frac{3x+5y}{8} + \frac{2x-y}{24} &= \frac{3(3x+5y)+(2x-y)}{24} \\ &= \frac{11x+14y}{24}\end{aligned}$$

$$\begin{aligned}\textcircled{6} \quad \frac{a-5b}{4} - \frac{a+b}{6} &= \frac{3(a-5b)-2(a+b)}{12} \\ &= \frac{a-17b}{12}\end{aligned}$$

$$\begin{aligned}\textcircled{7} \quad \frac{x+6y}{16} - \frac{7x+6y}{4} &= \frac{(x+6y)-4(7x+6y)}{16} \\ &= \frac{-27x-18y}{16}\end{aligned}$$

$$\begin{aligned}\textcircled{8} \quad \frac{3x-y}{4} + \frac{4x-3y}{2} &= \frac{(3x-y)+2(4x-3y)}{4} \\ &= \frac{11x-7y}{4}\end{aligned}$$

$$\begin{aligned}\textcircled{9} \quad \frac{4x-y}{24} - \frac{4x-7y}{6} &= \frac{(4x-y)-4(4x-7y)}{24} \\ &= \frac{-12x+27y}{24} \\ &= \frac{-4x+9y}{8}\end{aligned}$$

$$\begin{aligned}\textcircled{10} \quad \frac{4a+5b}{12} + \frac{a+7b}{3} &= \frac{(4a+5b)+4(a+7b)}{12} \\ &= \frac{8a+33b}{12}\end{aligned}$$