

# 多項式の計算

年 組 名前

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■ 次の計算をなさい。

$$\textcircled{1} \frac{3x+y}{4} + \frac{7x+3y}{12}$$

$$\textcircled{6} \frac{5x+6y}{18} + \frac{x+7y}{6}$$

$$\textcircled{2} \frac{7a+4b}{3} - \frac{a-b}{5}$$

$$\textcircled{7} \frac{x-3y}{7} - \frac{7x+5y}{28}$$

$$\textcircled{3} \frac{4x-5y}{16} - \frac{5x-y}{4}$$

$$\textcircled{8} \frac{3x+7y}{4} + \frac{x-6y}{5}$$

$$\textcircled{4} \frac{2x-5y}{25} + \frac{7x+2y}{5}$$

$$\textcircled{9} \frac{3a+2b}{20} - \frac{4a-3b}{4}$$

$$\textcircled{5} \frac{2x-y}{2} - \frac{5x-2y}{5}$$

$$\textcircled{10} \frac{5x-4y}{4} + \frac{2x-3y}{6}$$

■ 次の計算をなさい。

$$\begin{aligned}\textcircled{1} \quad \frac{3x+y}{4} + \frac{7x+3y}{12} &= \frac{3(3x+y) + (7x+3y)}{12} \\ &= \frac{16x+6y}{12} \\ &= \frac{8x+3y}{6}\end{aligned}$$

$$\begin{aligned}\textcircled{2} \quad \frac{7a+4b}{3} - \frac{a-b}{5} &= \frac{5(7a+4b) - 3(a-b)}{15} \\ &= \frac{32a+23b}{15}\end{aligned}$$

$$\begin{aligned}\textcircled{3} \quad \frac{4x-5y}{16} - \frac{5x-y}{4} &= \frac{(4x-5y) - 4(5x-y)}{16} \\ &= \frac{-16x-y}{16}\end{aligned}$$

$$\begin{aligned}\textcircled{4} \quad \frac{2x-5y}{25} + \frac{7x+2y}{5} &= \frac{(2x-5y) + 5(7x+2y)}{25} \\ &= \frac{37x+5y}{25}\end{aligned}$$

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

$$\begin{aligned}\textcircled{6} \quad \frac{5x+6y}{18} + \frac{x+7y}{6} &= \frac{(5x+6y) + 3(x+7y)}{18} \\ &= \frac{8x+27y}{18}\end{aligned}$$

$$\begin{aligned}\textcircled{7} \quad \frac{x-3y}{7} - \frac{7x+5y}{28} &= \frac{4(x-3y) - (7x+5y)}{28} \\ &= \frac{-3x-17y}{28}\end{aligned}$$

$$\begin{aligned}\textcircled{8} \quad \frac{3x+7y}{4} + \frac{x-6y}{5} &= \frac{5(3x+7y) + 4(x-6y)}{20} \\ &= \frac{19x+11y}{20}\end{aligned}$$

$$\begin{aligned}\textcircled{9} \quad \frac{3a+2b}{20} - \frac{4a-3b}{4} &= \frac{(3a+2b) - 5(4a-3b)}{20} \\ &= \frac{-17a+17b}{20}\end{aligned}$$

$$\begin{aligned}\textcircled{10} \quad \frac{5x-4y}{4} + \frac{2x-3y}{6} &= \frac{3(5x-4y) + 2(2x-3y)}{12} \\ &= \frac{19x-18y}{12}\end{aligned}$$