

開始日 /	終了日 /	解説 NO6	式の計算 NO7	NAME	7A
			中 2 分子が多項式の分数-①		

A コース

$$\begin{aligned} \textcircled{1} \quad & \frac{2x-3y}{3} + \frac{3x+2y}{4} \\ &= \frac{4(2x-3y)+3(3x+2y)}{12} \\ &= \frac{8x-12y+9x+6y}{12} \\ &= \frac{17x-6y}{12} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \frac{x+5y}{2} - \frac{2x-y}{6} \\ &= \frac{3(x+5y)-(2x-y)}{6} \\ &= \frac{3x+15y-2x+y}{6} \\ &= \frac{x+16y}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{3x+4y}{4} + \frac{-x-2y}{5} \\ &= \frac{5(3x+4y)+4(-x-2y)}{20} \\ &= \frac{15x+20y-4x-8y}{20} \\ &= \frac{11x+12y}{20} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{2x-y}{3} - \frac{5x-3y}{2} \\ &= \frac{2(2x-y)-3(5x-3y)}{6} \\ &= \frac{4x-2y-15x+9y}{6} \\ &= \frac{-11x+7y}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & \frac{2x+y}{1} - \frac{3x+4y}{3} \\ &= \frac{2x \times 3 + y \times 3 - (3x+4y)}{3} \\ &= \frac{6x+3y-3x-4y}{3} \\ &= \frac{3x-y}{3} \end{aligned}$$

B コース

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

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

$$\begin{aligned} \textcircled{3} \quad & \frac{2x+3y}{3} - \frac{x-y}{2} \\ &= \frac{2(2x+3y)-3(x-y)}{6} \\ &= \frac{4x+6y-3x+3y}{6} \\ &= \frac{x+9y}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{3x-4y}{5} - \frac{2x-y}{10} \\ &= \frac{2(3x-4y)-(2x-y)}{10} \\ &= \frac{6x-8y-2x+y}{10} \\ &= \frac{4x-7y}{10} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & x^2 - 3x - \frac{2x^2-x}{2} \\ &= \frac{x^2 \times 2 - 3x \times 2 - (2x^2-x)}{2} \\ &= \frac{2x^2-6x-2x^2+x}{2} \\ &= -\frac{5x}{2} \end{aligned}$$

C コース

$$\begin{aligned} \textcircled{1} \quad & \frac{a+2b}{3} + \frac{-5a+2b}{6} \\ &= \frac{2(a+2b)+(-5a+2b)}{6} \\ &= \frac{2a+4b-5a+2b}{6} \\ &= \frac{-3a+6b}{6} = \frac{-a+2b}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \frac{3a-5b}{4} - \frac{2a-4b}{3} \\ &= \frac{3(3a-5b)-4(2a-4b)}{12} \\ &= \frac{9a-15b-8a+16b}{12} \\ &= \frac{a+b}{12} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & \frac{6x-2y}{4} - \frac{3x-5y}{10} \\ &= \frac{5(6x-2y)-2(3x-5y)}{20} \\ &= \frac{30x-10y-6x+10y}{20} \\ &= \frac{24x}{20} = \frac{6x}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & \frac{3m+2n}{6} + \frac{-5m-3n}{8} \\ &= \frac{4(3m+2n)+3(-5m-3n)}{24} \\ &= \frac{12m+8n-15m-9n}{24} \\ &= \frac{-3m-n}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & -m+3n - \frac{2m+2n}{3} \\ &= \frac{-m \times 3 + 3n \times 3 - (2m+2n)}{3} \\ &= \frac{-3m+9n-2m-2n}{3} \\ &= \frac{-5m+7n}{3} \end{aligned}$$