

# 72

## 式の乗法・除法

年 組 番 名前

●例題1●

次の計算をなさい

$$\begin{aligned} & 2(x+3y) - 3(4x-y) \\ &= 2x+6y-12x+3y \\ &= -10x+9y \end{aligned}$$

分配法則を2度やる

→62の例題1, 2へ

問1 次の計算をなさい

(1)  $2(4x-y) + 3(x+y)$   
 $= 8x - 2y + 3x + 3y$   
 $= 11x + y$

答.  $11x+y$

(2)  $3(a+2b) - 2(3a-b)$   
 $= 3a + 6b - 6a + 2b$   
 $= -3a + 8b$

答.  $-3a+8b$

(3)  $-3(x+2y) + 2(5x-y)$   
 $= -3x - 6y + 10x - 2y$   
 $= 7x - 8y$

答.  $7x-8y$

(4)  $2(3x+7y) - (5x-9y)$   
 $= 6x + 14y - 5x + 9y$   
 $= x + 23y$

答.  $x+23y$

(5)  $4(2x-3y) - 6(x-2y)$   
 $= 8x - 12y - 6x + 12y$   
 $= 2x$

答.  $2x$

(6)  $5(a-3b+2) - 3(a-2b)$   
 $= 5a - 15b + 10 - 3a + 6b$   
 $= 2a - 9b + 10$

答.  $2a-9b+10$

●例題2●

次の計算をなさい

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

→62の例題3へ

問2 次の計算をなさい

(1)  $\frac{x-y}{3} - \frac{x+3y}{4}$   
 $= \frac{4(x-y)}{12} - \frac{3(x+3y)}{12}$   
 $= \frac{4x-4y-3x-9y}{12}$   
 $= \frac{x-13y}{12}$

(2)  $\frac{2a-5b}{3} - \frac{3a-7b}{5}$   
 $= \frac{5(2a-5b) - 3(3a-7b)}{15}$   
 $= \frac{10a-25b-9a+21b}{15}$   
 $= \frac{a-4b}{15}$

(3)  $\frac{3x-5y}{4} - \frac{2x-y}{6}$   
 $= \frac{3(3x-5y) - 2(2x-y)}{12}$   
 $= \frac{9x-15y-4x+2y}{12}$   
 $= \frac{5x-13y}{12}$