



1 次の式の種類項をまとめて簡単にしなさい。

(1)  $5x - 7 - x + 4$

(2)  $6x - 4y + 3y - 2x$

(3)  $x^2 - 3x + 5 + x$

(4)  $4y^2 - 7y - 6y^2 + 10y$

2 次の計算をしなさい。

(1)  $(5x - 7y) + (2x + 3y)$

(2)  $(4x - y) + (-x - 3y)$

(3)  $3x - y$   
+  $x + 5y$   
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(4)  $5x + y$   
+  $5x - y$   
\_\_\_\_\_

(5)  $(5x + 3y) - (2x + 7y)$

(6)  $(2x - y + 1) - (x - 6y - 4)$

(7)  $3x - y$   
-  $x - 3y$   
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(8)  $5x + y$   
-  $5x - y$   
\_\_\_\_\_

(9)  $2(x - 3y) + 3(2x + y)$

(10)  $4(3x + y) - 5(2x - 3y)$

(11)  $7(x + 2y - 1) - 3(2x - 5y + 4)$

1 次の式の同類項をまとめて簡単にしなさい。

$$\begin{aligned}(1) \quad & 5x-7-x+4 \\ & =5x-x-7+4 \\ & =4x-3\end{aligned}$$

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

$$\begin{aligned}(3) \quad & x^2-3x+5+x \\ & =x^2+(-3+1)x+5 \\ & =x^2-2x+5\end{aligned}$$

$$\begin{aligned}(4) \quad & 4y^2-7y-6y^2+10y \\ & =(4-6)y^2+(-7+10)y \\ & =-2y^2+3y\end{aligned}$$

2 次の計算をしなさい。

$$\begin{aligned}(1) \quad & (5x-7y)+(2x+3y) \\ & =5x-7y+2x+3y \\ & =(5+2)x+(-7+3)y \\ & =7x-4y\end{aligned}$$

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

$$\begin{array}{r} (3) \quad 3x-y \\ +) \quad x+5y \\ \hline 4x+4y \end{array}$$

$$\begin{array}{r} (4) \quad 5x+y \\ +) \quad 5x-y \\ \hline 10x \end{array}$$

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

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

$$\begin{array}{r} (7) \quad 3x-y \qquad 3x-y \\ -) \quad x-3y \quad \rightarrow +) \quad -x+3y \\ \hline \text{減法を加法に} \quad 2x+2y \end{array}$$

$$\begin{array}{r} (8) \quad 5x+y \qquad 5x+y \\ -) \quad 5x-y \quad \rightarrow +) \quad -5x+y \\ \hline \text{減法を加法に} \quad 2y \end{array}$$

$$\begin{aligned}(9) \quad & 2(x-3y)+3(2x+y) \\ & =2x-6y+6x+3y \\ & =12x-10x+4y+15y \\ & =2x+19y\end{aligned}$$

$$\begin{aligned}(10) \quad & 4(3x+y)-5(2x-3y) \\ & =12x+4y-10x+15y \\ & =2x+6x-6y+3y \\ & =8x-3y\end{aligned}$$

$$\begin{aligned}(11) \quad & 7(x+2y-1)-3(2x-5y+4) \\ & =7x+14y-7-6x+15y-12 \\ & =7x-6x+14y+15y-7-12 \\ & =x+29y-19\end{aligned}$$