

1 解答 (1) $10x+7y$ (2) $-x+y$ (3) $7a-7b$ (4) $4a+2b$

(5) $5x^2-xy$ (6) $ab+3bc+ca$

$$\begin{aligned}(1) \quad (3x+y)+(7x+6y) &= 3x+y+7x+6y \\ &= 3x+7x+y+6y \\ &= 10x+7y\end{aligned}$$

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

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

$$\begin{aligned}(4) \quad 8a+(-4a+2b) &= 8a-4a+2b \\ &= 4a+2b\end{aligned}$$

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

$$\begin{aligned}(6) \quad (-2ab+4bc-ca)+(3ab-bc+2ca) &= -2ab+4bc-ca+3ab-bc+2ca \\ &= -2ab+3ab+4bc-bc-ca+2ca \\ &= ab+3bc+ca\end{aligned}$$

2 解答 (1) $3x+3y$ (2) $3a-3b$ (3) $2x+11y$ (4) $-a-6b$

(5) $x^2-4xy-3y^2$ (6) $-2ab+bc$

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

$$\begin{aligned}(2) \quad (4a-7b)-(a-4b) &= 4a-7b-a+4b \\ &= 4a-a-7b+4b \\ &= 3a-3b\end{aligned}$$

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

$$\begin{aligned}(4) \quad (-4a-7b)-(-b-3a) &= -4a-7b+b+3a \\ &= -4a+3a-7b+b \\ &= -a-6b\end{aligned}$$

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

$$\begin{aligned}(6) \quad (5ab-bc+3ca)-(7ab+3ca-2bc) &= 5ab-bc+3ca-7ab-3ca+2bc \\ &= 5ab-7ab-bc+2bc+3ca-3ca \\ &= -2ab+bc\end{aligned}$$

3 解答 (1) $3a+6b$ (2) $9x+8y$ (3) $-4x+15y$ (4) $5x-12y$

(5) $25a-14$ (6) x^2-4x-1

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

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

$$\begin{aligned}(3) \quad (-9x+7y)+(5x+8y) &= -9x+7y+5x+8y \\ &= -4x+15y\end{aligned}$$

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

$$\begin{aligned}(5) \quad (10a+7b-11)+(15a-7b-3) &= 10a+7b-11+15a-7b-3 \\ &= 25a-14\end{aligned}$$

$$\begin{aligned}(6) \quad (8x^2-9x+2)-(7x^2-5x+3) &= 8x^2-9x+2-7x^2+5x-3 \\ &= x^2-4x-1\end{aligned}$$