

Algebraic Expressions Ex 7.4 Q1

Answer:

We have

2x + (5x - 3y)

Since the '+' sign precedes the parentheses, we have to retain the sign of each term in the parentheses when we remove them

$$= 2x + 5x - 3y$$

= 7x - 3y

Algebraic Expressions Ex 7.4 Q2

Answer:

We have

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

Since the '-' sign precedes the parentheses, we have to change the sign of each term in the parentheses when we remove them. Therefore, we have

$$3x - y + 2x$$

=5x-y

Algebraic Expressions Ex 7.4 Q3

Answer

We have

5a - (3b - 2a + 4c)

Since the '-' sign precedes the parentheses, we have to change the sign of each term in the parentheses when we remove them.

= 7a - 3b - 4c

Algebraic Expressions Ex 7.4 Q4

Answer:

We have

$$-2(x^2-y^2+xy)-3(x^2+y^2-xy)$$

Since the '-' sign precedes the parentheses, we have to change the sign of each term in the parentheses when we remove them.

$$= -2x^2 + 2y^2 - 2xy - 3x^2 - 3y^2 + 3xy$$

$$= -2x^2 - 3x^2 + 2y^2 - 3y^2 - 2xy + 3xy$$

$$= -5x^2 - y^2 + xy$$

Algebraic Expressions Ex 7.4 Q5

Answer:

We have

$$3x + 2y - \{x - (2y - 3)\}$$

First, we have to remove the small brackets (or parentheses): (). Then, we have to remove the curly brackets (or braces): { }.

Therefore,

$$= 3x + 2y - \{x - 2y + 3\}$$

$$= 3x + 2y - x + 2y - 3$$

= 2x + 4y - 3

Algebraic Expressions Ex 7.4 Q6

Answer:

We have

First, we have to remove the small brackets (or parentheses): (). Then, we have to remove the curly brackets (or braces): { }.

Therefore,

= 5a - 4a - 2

= a - 2

******* END ********