

**EXERCISE 11F**

Enclose the given terms in brackets as required:

1.  $x - y - z = z - (\dots\dots\dots)$
2.  $x^2 - xy^2 - 2xy - y^2 = x^2 - (\dots\dots\dots)$
3.  $4a - 9 + 2b - 6 = 4a - (\dots\dots\dots)$
4.  $x^2 - y^2 + z^2 + 3x - 2y = x^2 - (\dots\dots\dots)$
5.  $-2a^2 + 4ab - 6a^2b^2 + 8ab^2 = -2a (\dots\dots\dots)$

**Solution:**

1.  $x - y - z = z - (y + z)$
2.  $x^2 - xy^2 - 2xy - y^2 = x^2 - (xy^2 + 2xy + y^2)$
3.  $4a - 9 + 2b - 6 = 4a - (9 - 2b + 6)$
4.  $x^2 - y^2 + z^2 + 3x - 2y = x^2 - (y^2 - z^2 - 3x + 2y)$
5.  $-2a^2 + 4ab - 6a^2b^2 + 8ab^2 = -2a (a - 2b + 3ab^2 - 4b^2)$

**Simplify:**

6.  $2x - (x - 3y + 2z)$

**Solution:**

$2x - (x - 3y + 2z)$   
We can write it as  
 $= 2x - x + 3y - 2z$   
So we get  
 $= x + 3y - 2z$



7.  $p + q - (p - q) + (2p - 3q)$

**Solution:**

$p + q - (p - q) + (2p - 3q)$   
We can write it as  
 $= p + q - p + q + 2p - 3q$   
So we get  
 $= 2p - q$

8.  $9x - (-4x + 5)$

**Solution:**

$9x - (-4x + 5)$   
We can write it as  
 $= 9x + 4x - 5$   
So we get  
 $= 13x - 5$

9.  $6a - (-5a - 8b) + (3a + b)$

**Solution:**

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Fundamental Concepts (Including Fundamental Operations)**

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$$6a - (-5a - 8b) + (3a + b)$$

We can write it as

$$= 6a + 5a + 8b + 3a + b$$

So we get

$$= 6a + 5a + 3a + 8b + b$$

$$= 14a + 9b$$

**10.  $(p - 2q) - (3q - r)$**

**Solution:**

$$(p - 2q) - (3q - r)$$

We can write it as

$$= p - 2q - 3q + r$$

So we get

$$= p - 5q + r$$

**11.  $9a(2b - 3a + 7c)$**

**Solution:**

$$9a(2b - 3a + 7c)$$

We can write it as

$$= 18ab - 27a^2 + 63ac$$

**12.  $-5m$**

**Solution:**

$$-5m$$

We can write it as

$$= 10m$$

**13.  $-2x(x + y) + x^2$**

**Solution:**

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

We can write it as

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

So we get

$$= -x^2 - 2xy$$

**14.  $b(2b - 1/b) - 2b(b - 1/b)$**

**Solution:**

$$b(2b - 1/b) - 2b(b - 1/b)$$

We can write it as

$$= 2b^2 - 1 - 2b^2 + 2$$

So we get

$$= 1$$

**15.  $8(2a + 3b - c) - 10(a + 2b + 3c)$**

**Solution:**



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$$8(2a + 3b - c) - 10(a + 2b + 3c)$$

We can write it as

$$= 16a + 24b - 8c - 10a - 20b - 30c$$

So we get

$$= 6a + 4b - 38c$$



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