

Selina Solutions Concise Maths Class 7 Chapter 11 – Fundamental Concepts (Including Fundamental Operations)

## **EXERCISE 11F**

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Enclose the given terms in brackets as required: 1. x - y - z = z - (..., )2.  $x^2 - xy^2 - 2xy - y^2 = x^2 - (..., )$ 3. 4a - 9 + 2b - 6 = 4a - (..., )4.  $x^2 - y^2 + z^2 + 3x - 2y = x^2 - (..., )$ 5.  $-2a^2 + 4ab - 6a^2b^2 + 8ab^2 = -2a (..., )$ 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 + 2y - z)Solution:

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

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7. p + q - (p - q) + (2p - 3q)
Solution:
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p+q-(p-q)+(2p-3q)We can write it as = p+q-p+q+2p-3qSo we get = 2p-q

8. 9x – (-4x + 5) Solution:

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

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



6a - (-5a - 8b) + (3a + b)We can write it as = 6a + 5a + 8b + 3a + bSo 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 + rSo we get = p - 5q + r

11. 9a (2b – 3a + 7c) Solution:

9a (2b - 3a + 7c)We can write it as =  $18ab - 27a^2 + 63ca$ 

#### 12. - 5m(-2m + 3n - 7p)Solution:

-5m (-2m + 3n - 7p)We can write it as  $= 10m^2 - 15mn + 35mp$ 

 $13. - 2x (x + y) + x^2$ Solution:

-2x (x + y) + x<sup>2</sup>We can write it as = -2x<sup>2</sup> - 2xy + x<sup>2</sup>So we get = -x<sup>2</sup> - 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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