

ii) $4ab, 6a$

The subtraction of first term from the second term is calculated as below

$$6a - 4ab = 2a$$

iii) $4 \cdot 8b, 6 \cdot 8b$

The subtraction of first from the second term is calculated as below

$$6 \cdot 8b - 4 \cdot 8b = 2b$$

iii) $3.5abc, 10.5abc$

The subtraction of first term from the second term is calculated as below

$$10.5abc - 3.5abc = 7abc$$

iv) $3 \left(\frac{1}{2}\right)mn, 8 \left(\frac{1}{2}\right)nm$

The subtraction of first term from the second term is calculated as below

$$8 \left(\frac{1}{2}\right)nm - 3 \left(\frac{1}{2}\right)mn = \left(\frac{7}{2}\right)nm - \left(\frac{3}{2}\right)mn$$

We get

$$\frac{1}{2} \left[\left(\frac{7}{2}mn - \frac{3}{2}mn\right) \right] = \left(\frac{4}{2}\right)mn = 2mn$$

(Q7)

i) $9a^2b^2 + 5ab^2 + 8a^2b^2 - 3ab^2$
The simplified form of the given expression is calculated as follows

$$9a^2b^2 + 5ab^2 + 8a^2b^2 - 3ab^2 = 9a^2b^2 + 8a^2b^2 + 5ab^2 - 3ab^2$$

We get,
 $= 10a^2b^2 + 2ab^2$

Therefore, $9a^2b^2 + 5ab^2 + 8a^2b^2 - 3ab^2 = 10a^2b^2 + 2ab^2$

ii) $4a + 3b - 2a - b$

The simplified form of the given expression is calculated as follows

$$4a + 3b - 2a - b = 4a - 2a + 3b - b = 2a + 2b$$

Therefore, $4a + 3b - 2a - b = 2a + 2b$

iii)

$2xy + 4yz + 5xy + 3yz - 6xy$

The simplified form of the given expression is calculated as follows

$$2xy + 4yz + 5xy + 3yz - 6xy = 2xy + 5xy - 6xy + 4yz + 3yz = xy + 7yz$$

Therefore, $2xy + 4yz + 5xy + 3yz - 6xy = xy + 7yz$

iv)

$ab + 15ab - 11ab - 2ab$

The simplified form of the given expression is calculated as follows

$$ab + 15ab - 11ab - 2ab = 16ab - 13ab = 3ab$$

Therefore, $ab + 15ab - 11ab - 2ab = 3ab$

4) $6a^2 - 3b^2 + 2a^2 + 5b^2 - 4a^2 = 6a^2 + 2a^2 - 4a^2 + 5b^2 - 3b^2$
 we get

5) $6a^2 - 3b^2 + 2a^2 + 5b^2 - 4a^2$

The simplified form of the given expression is calculated as follows

$$6a^2 - 3b^2 + 2a^2 + 5b^2 - 4a^2 = 6a^2 + 2a^2 - 4a^2 + 5b^2 - 3b^2$$

we get,

$$= 4a^2 + 2b^2$$

Therefore, $6a^2 - 3b^2 + 2a^2 + 5b^2 - 4a^2 = 4a^2 + 2b^2$