

$$5 \text{ (iii)} \left(\frac{4}{3} m - \frac{3}{4} n \right)^2 + 2mn$$

$$= \left(\frac{4}{3} m \right)^2 + \left(\frac{3}{4} n \right)^2 - 2 \times \frac{4}{3} m \times \frac{3}{4} n + 2mn$$

$$= \frac{16}{9} m^2 + \frac{9}{16} n^2 - 2mn + 2mn$$

$$= \frac{16}{9} m^2 + \frac{9}{16} n^2$$

$$= \text{RHS}$$

$$5 \text{ (iv)} (4pq + 3q)^2 - (4pq - 3q)^2$$

$$= (4pq)^2 + (3q)^2 + 2 \times 4pq \times 3q$$

$$- [(4pq)^2 + (3q)^2 - 2 \times 4pq \times 3q]$$

$$= 16p^2q^2 + 9q^2 + 24pq^2 - 16p^2q^2 - 9q^2 + 24pq^2$$

$$= 48pq^2$$

$$= \text{RHS} \quad \text{Get NCERT Exemplar Solutions at DevAnoop. Me}$$