

$$\begin{aligned}
 4 \text{ (VII)} \quad & (m^2 - n^2m)^2 + 2m^3n^2 \\
 &= (m^2)^2 - 2 \times m^2 \times n^2m + (n^2m)^2 + 2m^3n^2 \\
 &= m^4 - 2m^3n^2 + n^4m^2 + 2m^3n^2 \\
 &= m^4 + n^4m^2
 \end{aligned}$$

$$\begin{aligned}
 5 \text{ (I)} \quad & \overset{\text{LHS}}{=} (3x+7)^2 - 84x \\
 &= (3x)^2 + 7^2 + 2 \times 3x \times 7 - 84x \\
 &= (3x)^2 + 7^2 + 42x - 84x \\
 &= (3x)^2 + 7^2 - 42x \\
 &= (3x)^2 + 7^2 - 2 \times 3x \times 7 \\
 &= (3x-7)^2 \\
 &= \text{RHS}
 \end{aligned}$$

$$\begin{aligned}
 5 \text{ (II)} \quad & \overset{\text{LHS}}{=} (9p-5q)^2 + 180pq \\
 &= (9p)^2 + (5q)^2 - 2 \times 9p \times 5q + 180pq \\
 &= (9p)^2 + (5q)^2 - 90pq + 180pq \\
 &= (9p)^2 + (5q)^2 + 90pq \\
 &= (9p)^2 + (5q)^2 + 2 \times 9p \times 5q \\
 &= (9p+5q)^2
 \end{aligned}$$

= RHS **Get NCERT Exemplar Solutions at DevAnoop.Me**