

$$\begin{aligned}
 3 \text{ (v)} \quad & (0.4p - 0.5q)^2 \\
 &= (0.4p)^2 - 2 \times 0.4p \times 0.5q + (0.5q)^2 \\
 &= 0.16p^2 - 0.4pq + 0.25q^2
 \end{aligned}$$

$$\begin{aligned}
 3 \text{ (vi)} \quad & (2xy + 5y)^2 \\
 &= (2xy)^2 + 2 \times 2xy \times 5y + (5y)^2 \\
 &= 4x^2y^2 + 20xy^2 + 25y^2
 \end{aligned}$$

$$\begin{aligned}
 4 \text{ (i)} \quad & (a^2 - b^2)^2 \\
 &= (a^2)^2 - 2 \times a^2 \times b^2 + (b^2)^2 \\
 &= a^4 - 2a^2b^2 + b^4
 \end{aligned}$$

$$\begin{aligned}
 4 \text{ (ii)} \quad & (2x+5)^2 - (2x-5)^2 \\
 &= [2x+5 - (2x-5)] [2x+5 + (2x-5)] \\
 &= (2x+5 - 2x+5) (2x+5 + 2x-5) \\
 &= 10(4x) \\
 &= 40x
 \end{aligned}$$

$$\begin{aligned}
 4 \text{ (iii)} \quad & (7m-8n)^2 + (7m+8n)^2 \\
 &= (7m)^2 - 2 \times 7m \times 8n + (8n)^2 + (7m)^2 \\
 &\quad + 2 \times 7m \times 8n + (8n)^2 \\
 &= 49m^2 - 112mn + 64n^2 + 49m^2 + 112mn \\
 &\quad + 64n^2 \\
 &= 98m^2 + 128n^2
 \end{aligned}$$