

$$\begin{aligned}
 3\text{(iii)} \quad & a+b - (a-b) \\
 & = \cancel{a} + b - \cancel{a} + b \\
 & = 2b
 \end{aligned}$$

$$\begin{aligned}
 \text{(iv)} \quad & b(5-a) - a(b-5) \\
 & = 5b - ab - ab + 5a \\
 & = 5a - 2ab + 5b
 \end{aligned}$$

$$\begin{aligned}
 \text{(v)} \quad & 4m^2 - 3mn + 8 - (-m^2 + 5mn) \\
 & = 4m^2 - 3mn + 8 + m^2 - 5mn \\
 & = 5m^2 - 8mn + 8
 \end{aligned}$$

$$\begin{aligned}
 \text{(vi)} \quad & 5x - 10 - (-x^2 + 10x - 5) \\
 & = 5x - 10 + x^2 - 10x + 5 \\
 & = x^2 - 5x - 5
 \end{aligned}$$

$$\begin{aligned}
 \text{(vii)} \quad & 3ab - 2a^2 - 2b^2 - (5a^2 - 7ab + 5b^2) \\
 & = 3ab - 2a^2 - 2b^2 - 5a^2 + 7ab - 5b^2 \\
 & = -7a^2 + 10ab - 7b^2
 \end{aligned}$$

$$\begin{array}{r}
 \text{(viii)} \quad 5p^2 + 3q^2 - pq \\
 -3p^2 - 5q^2 + 4pq \\
 \hline
 \begin{array}{ccc}
 + & + & - \\
 8p^2 + 8q^2 - 5pq
 \end{array}
 \end{array}$$