

$$\begin{aligned} 3(i) \quad x^2 + xy + 8x + 8y \\ = x(x+y) + 8(x+y) \\ = (x+y)(x+8) \end{aligned}$$

$$\begin{aligned} 3(ii) \quad 15xy - 6x + 5y - 2 \\ = 3x(5y-2) + 1(5y-2) \\ = (5y-2)(3x+1) \end{aligned}$$

$$\begin{aligned} 3(iii) \quad ax + bx - ay - by \\ = x(a+b) - y(a+b) \\ = (a+b)(x-y) \end{aligned}$$

$$\begin{aligned} 3(iv) \quad 15pq + 15 + 9q + 25p \\ = 15pq + 25p + 15 + 9q \\ = 5p(3q+5) + 3(3q+5) \\ = (3q+5)(5p+3) \end{aligned}$$