

c) i) $27R^2 + 24R + 5$

~~$9R^2 + 3R + 1 = (3R + 1)(3R + 1)$~~
 $= (3x + 1)(9x + 5)$

ii) $81Q^2 - 144U^2$

$$= 9(3Q + 4U)(3Q - 4U)$$

iii) $tr - ty + ur - uy$

$$= (r - y)(t + u)$$

Q1) i) $x^2 + 9x + 8 = 0$

$$(x + 1)(x + 8) = 0$$

$$x^2 + 8x + x + 8 = 0$$

$$x^2 + 9x + 8 = 0$$

$$x = 1 \quad x = 8$$

ii) $12x^2 - 5x - 3 = 0$

$$(6x - 1)(2x + 3)$$