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Analytical Methods (ACHA4000)

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c) i) $27R^2 + 24R + 5 = (3x+1)(9x+5)$

ii) $81Q^2 - 144U^2 = 9(3Q+4U)(3Q-4U)$

iii) $tr - ty + ur - uy = (r-y)(t+u)$

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

$$(6x-1)(2x+3) = 0$$

$$12x^2 + 18x - 2 - 3 = 0$$

$$12x^2 + 18x - 5 = 0$$

iii) $2x^2 + 17x = -30$

$$2x^2 + 17x + 30 = 0$$

$$(2x+15)(x+2) = 0$$

$$x = -15 \quad x = -2$$

iv) $x^2 - 256 = 0$

$$(x+16)(x-16) = 0$$

$$x = -16 \quad x = 16$$