Set 1, Qu 23, 24, 28, 29 3/3/15

(23) $(2c-3)^2$

$= (2c-3)(2c-3)$

$= 4c^2 - 6c - 6c + 9$

$= 4c^2 - 12c + 9$

(24) $(x-3)(2x+1)(x-5)$

$= (x-3)(2x^2 - 10x + x - 5)$

$= (x-3)(2x^2 - 9x - 5)$

$= 2x^3 - 9x^2 - 5x - 6x^2 + 27x + 15$

$= 2x^3 - 15x^2 + 22x + 15$

(28) $\dfrac{x^2 + x - 12}{x^2 - 3x}$

$= \dfrac{(x-3)(x+4)}{x(x-3)}$

$= \dfrac{x+4}{x}$

(29) $27a^5 - 12a^3$

$= 3a^3(9a^2 - 4)$

$= 3a^3(3a-2)(3a+2)$

Set a, Qu 18, 20, 25, 28

(18) $\dfrac{3x^{-2} \times 5x^{4}}{x^{-1}}$

$= \dfrac{15x^{2}}{x^{-1}}$

$= 15x^{3}$

(20) $2b^{1/2}(4b^{-1/2} - b^{1/2})$

$= 8b^{0} - 2b$

$= 8 \times 1 - 2b$

$= 8 - 2b$

(25) $2p^{2} + 9p - 5$

$= (2p - 1)(2p + 5)$

(28) $\dfrac{4c^{2} - 9}{8c + 12}$

$= \dfrac{(2c - 3)(2c + 3)}{4(2c + 3)}$

$= \dfrac{2c - 3}{4}$