p.271 #4e)

$$\frac{16mnp - 24mnr + 32kmn}{8mn}$$

$\frac{6}{6} = 1$

$\frac{mn}{mn} = 1$

$$= \frac{16mnp}{8mn} - \frac{24mnr}{8mn} + \frac{32kmn}{8mn}$$

$$= 2(1)p - 3r + 4k$$

$$= 2p - 3r + 4k$$

What if? $p = 3$ $r = 10$ $k = 5$

$$= 2(3) - 3(10) + 4(5)$$

$$= 6 - 30 + 20$$

$$= -24 + 20$$

$$= -4$$

p. 272 #81)

$$7m^2n^3(2m^2n^3 + 5mn^4 - 3m^3np)$$

$$= 14m^4n^6 + 35m^3n^7 - 21m^5n^4p$$

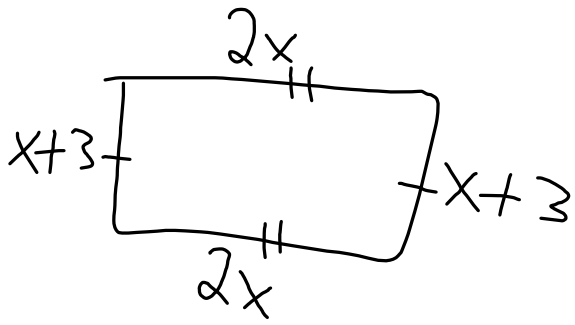
#84)

$$\frac{15x^2y^3 - 20x^5y^2 + 25x^3y^4}{5xy^2}$$

$$= \frac{15x^2y^3}{5xy^2} - \frac{20x^5y^2}{5xy^2} + \frac{25x^3y^4}{5xy^2}$$

$$= 3xy - 4x^4 + 5x^2y^2$$

Like #28) Calculate the perimeter of the rectangle



a)

$P = 2x + 2x + x+3 + x+3$

$P = 2\ell + 2w$

$P = 2(2x) + 2(x+3)$

$P = 4x + 2x + 6$

$\boxed{P = 6x + 6}$

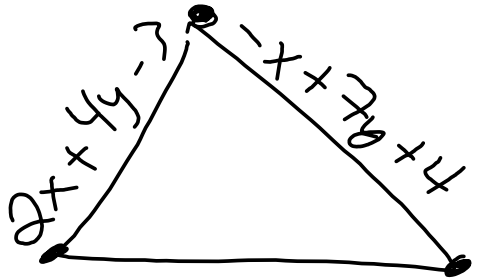
b) Solve when $x = 4$ cm

$P = 6(4) + 6$

$P = 30$ cm

Review worksheet #29a)

Find the 3rd side length



$P = 5x + 3y - 2$

3rd side length $= P - S_1 - S_2$

$= 5x + 3y - 2 - (2x + 4y - 3) - (-x + 7y + 4)$

$= 5x + 3y - 2 - 2x - 4y + 3 + x - 7y - 4$

$= 4x - 8y - 3$

Dividing Polynomials Worksheet
Bottom question.
Simplify

$$\frac{3x(4x^2y - 2xy^2) - 4x^2\left(\frac{1}{2}xy - 2y^2\right)}{2x^2y}$$

$$= \frac{12x^3y - 6x^2y^2 - 2x^3y + 8x^2y^2}{2x^2y}$$

$$= \frac{10x^3y + 2x^2y^2}{2x^2y}$$

$$= \frac{10x^3y}{2x^2y} + \frac{2x^2y^2}{2x^2y}$$

$$= 5x + y$$