P. 278 Common Factors Continued

Feb. 4

14. $\frac{8x^2}{4x^2} + \frac{4x^3}{4x^2}$

$= 4x^2(2 + x)$

21. $\frac{4x^2y^2}{2xy^2} - \frac{6xy^2z^2}{2xy^2}$

$= 2xy^2(2x - 3z^2)$

23. $\frac{6x^2y^3z}{6xy^2z} + \frac{12xy^2z}{6xy^2z}$

$= 6xy^2z(xy + 2)$

25. $\frac{9a}{3} - \frac{6b}{3} + \frac{3}{3}$

$= 3(3a - 2b + 1)$

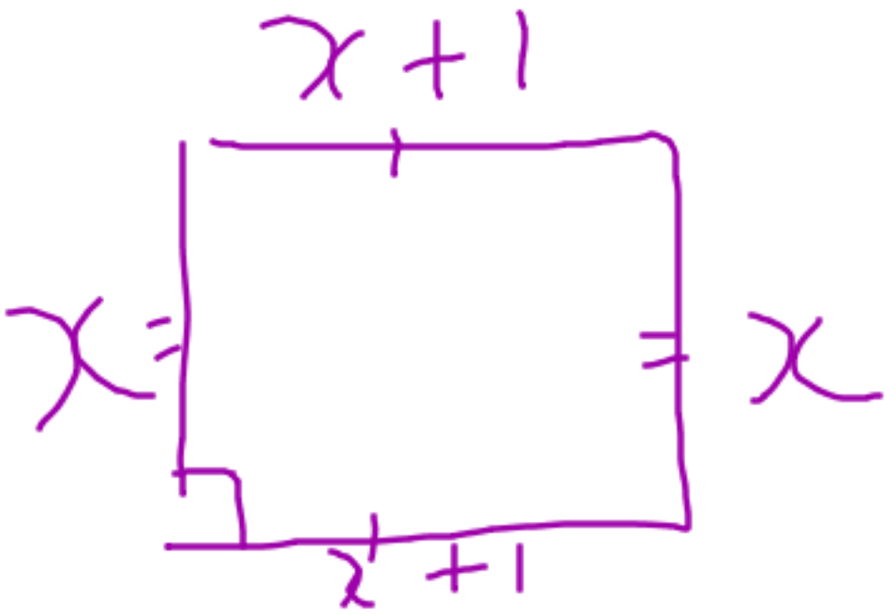
27. $\frac{12x^3}{6x^1} - \frac{6x^2}{6x^1} + \frac{24x}{6x}$

$= 6x(2x^2 - x + 4)$

29. $\frac{24x^4y}{6x^2y} - \frac{18x^3y}{6x^2y} + \frac{12x^2y^2}{6x^2y}$

$= 6x^2y(4x^2 - 3x + 2y)$

33. Given the length is 1cm longer than width



$P = 46cm$

let x = the width
then let $x+1$ = the length

Find: the dimensions

$P = \frac{2w}{2} + \frac{2L}{2}$

$P = 2(w + L)$

$46 = 2(x + x+1)$

$46 = 2(2x+1)$

$46 = 4x + 2$

$\frac{44}{4} = \frac{4x}{4}$

$x = 11$

$\therefore$ the width is 11cm & the length is 12cm

34a) Factor

$$\frac{(a+b)x}{(a+b)} + \frac{(a+b)y}{(a+b)}$$

$$= (a+b)(x+y)$$

b) $$x\left(\frac{x-2}{x-2}\right) + \frac{3(x-2)}{x-2}$$

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

p.280 Binomial Products Feb 4

6. $x(2x+3)$

$= 2x^2 + 3x$

8. $4x(3x-1)$

$= 12x^2 - 4x$

10. $-2x(3x+5y)$

$= -6x^2 - 10xy$

11. $(x+1)(x+2)$

$= x^2 + 2x + 1x + 2$

$= x^2 + 3x + 2$

15. $(x-4)(x-3)$

$= x^2 - 3x - 4x + 12$

$= x^2 - 7x + 12$

19
21
24
26
31

Homework:

finish box 1 p. 278

box 2 first line thru 28.

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