Announcement:

Unit Test (Chapter 8 and 9) - Monday 5/14

Section 9.7 050912.notebook May 09, 2012

Factoring Polynomial Worksheets Review:

$$2x^{2} + x - 15 = 0$$

$$1,2 -1,15 (x+3)(2x-5) = 0$$

$$1,2 1,-15$$

$$1,2 15,-1 (x+3=0) 2x-5=0$$

$$1,2 -15,1 (x=-3) = 0$$

$$1,3 -15,1 (x=-3) = 0$$

$$\frac{3x^{2}-15x+18}{3} = 0$$

$$3(x^{3}-5x+6)$$

$$3(x-2)(x-3) = (3x-6)(x-3)$$

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

$$(x-2)(x-3) = 0$$

$$3x-9=0$$

$$3x-9=0$$

$$(x-2)(x-3) = 0$$

$$(x-2)(x-3) = 0$$

$$(x-3)(x-3) = 0$$

$$\frac{5x^{2}-10x-75-0}{5}$$

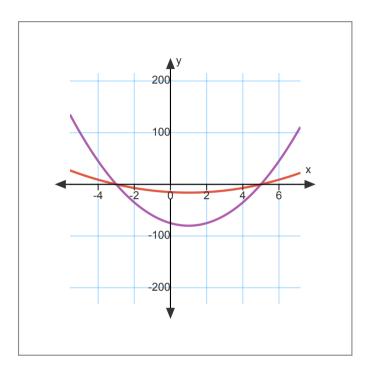
$$x^{2}-2x-15=0$$

$$(x+3)(x-5)=0$$

$$X=-3 - x=5$$

$$5x^2 - (10x) - 75$$

$$x^2 - (2x) - 15$$

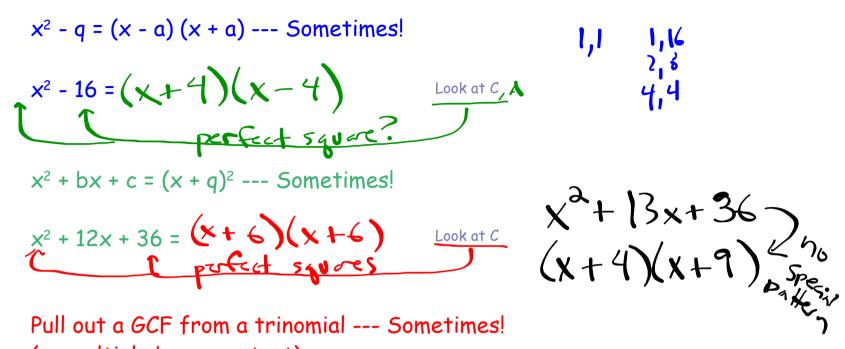


$$\begin{array}{r}
 15y^2 + 27y + 8 \\
 3,5 & 4,2 & = 26 \\
 3,5 & 3,4 & = 22 \\
 3,5 & 1,8 & = 29
 \end{array}$$

$$\begin{array}{r}
 3y+1)(5y+8)
 \end{array}$$

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Special Patterns when Factoring Polynomials:



(or multiply by a constant)

$$6x^{2} + 12x - 48 = 6(x^{2} + 2x - 8)$$

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

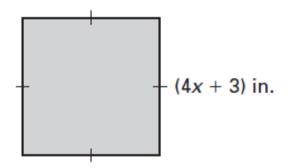
Look for common factors or common denominators

16.
$$\frac{8a^2 - 72 = 0}{8}$$
 $\frac{2}{8}$
 $\frac{2}{8}$

18.
$$-4y^2 + 32y - 64 = 0$$
 -4
 $y^2 - 8y + (6 = 0)$
 $(y - 4)(y - 4) = 0$
 $y = 4$
 $y = 4$

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26. Area = 225 in.^2



Homework:

p. 596, 4-21, 23-37 odd, 43-47 odd, 59

Homework:

p. 603, 3-18 by 3, 25-37 by 3, 51