Homework 
$$p 596$$

(19)  $4n^2 + 16n + 15$ 
 $2v^3 + 4v$ 

(2n + 3)(2n + 5)  $2v(v^2 + 2)$ 
(8)  $-3p^2 - 10p - 3$ 
 $-1(3p^2 + 10p + 3)$ 
 $-1(3p + 1)(1p + 3)$ 

## **Announcements:**

Skills Test on Monday 12/12
Factoring/Solving polynomials
Working with exponenents

Unit Test (Chapter 8 and 9) - Thursday 12/15

## Special Patterns when Factoring Polynomials:

$$x^2 - q = (x - a)(x + a)$$
 --- Sometimes!

$$x^2 - 16 = (x + 4)(x - 4)$$
Look at C

$$x^{2} + bx + c = (x + q)^{2}$$
 --- Sometimes!

$$x^{2} + 12x + 36 = (x + 6)(x + 6) \frac{\text{Look at } C}{C}$$

Pull out a GCF from a trinomial --- Sometimes! (or multiply by a constant)

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

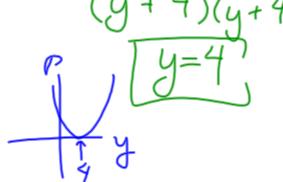
$$6(x + 4)(x - 2)$$

Look for common factors or common denominators

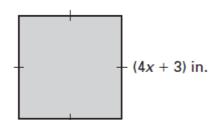
**16.** 
$$8a^2 - 72 = 0$$

$$a = -3$$
  $a = 3$ 

18. 
$$\frac{-4y^2}{-4} + \frac{32y}{-4} - \frac{64}{-4} = 0$$



**26.** Area =  $225 \text{ in.}^2$ 



## Homework:

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