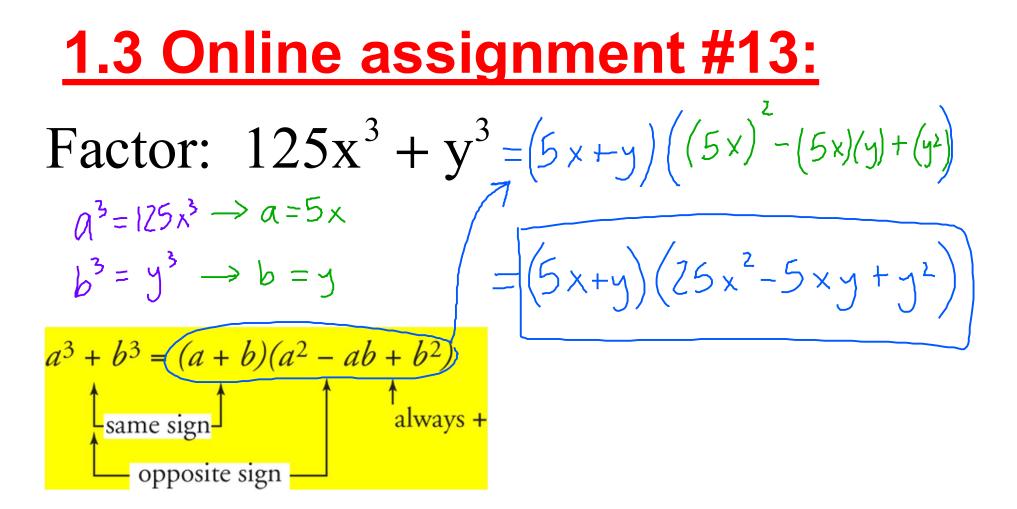
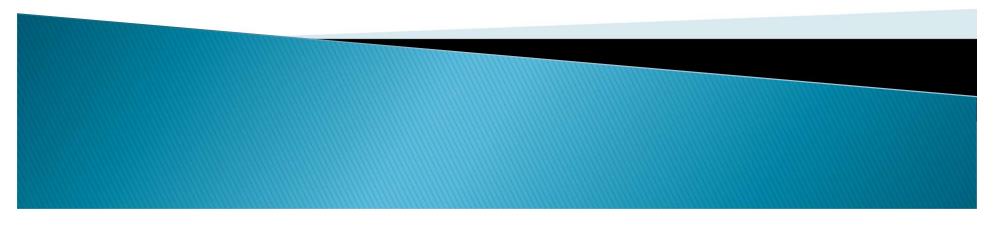


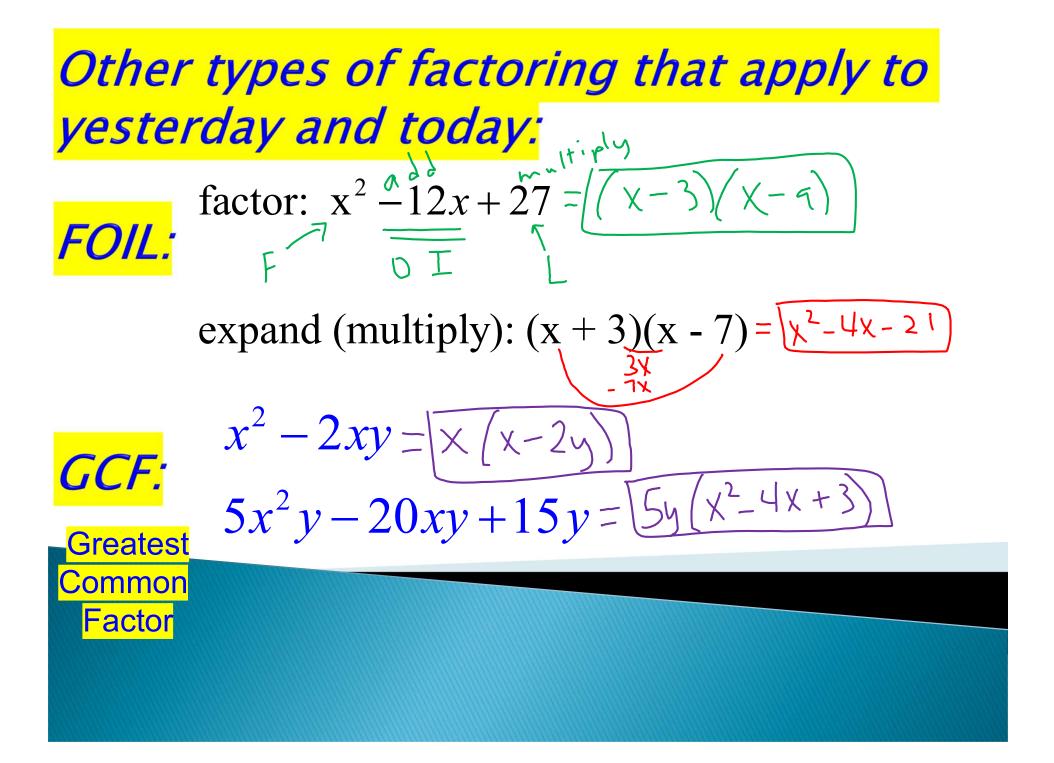
Quiz today:

- \*Very similar to practice quiz from a few days ago
- \* No calculator, no notes
- \* 20 points









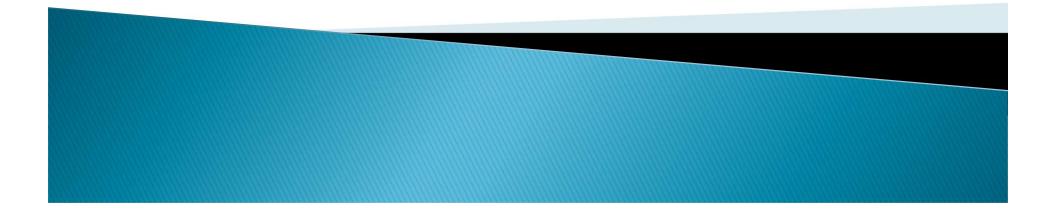
# Notes 1.4 Domain & Range

#### Domain:

the set of all input values (x) for a function

### <u>Range:</u>

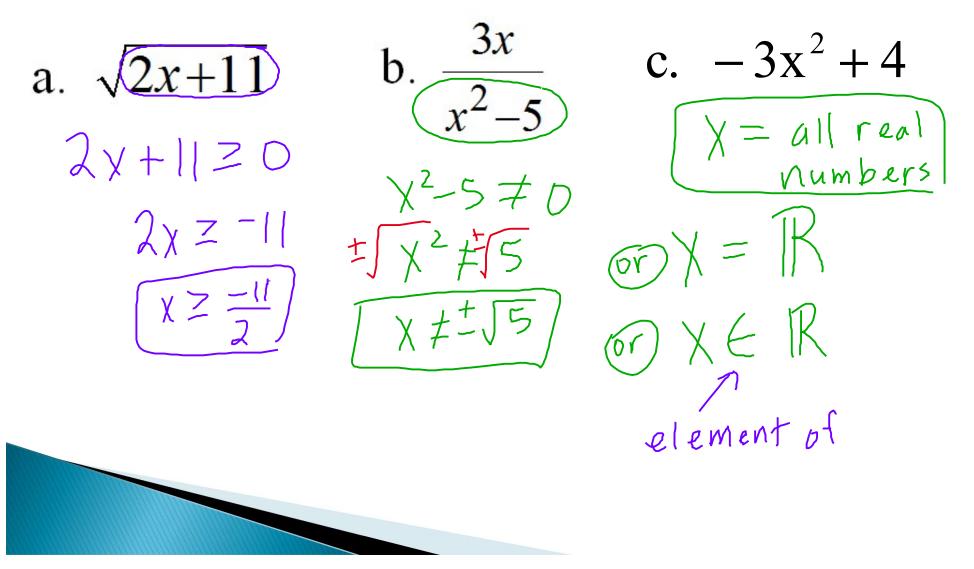
the set of all output values (y) for a function



**Notes 1.4 Domain** X cannot be negative Radical expressions: If given  $\sqrt{x} \rightarrow$  then solve  $x \ge 0$ Fractional expressions: If given  $\frac{y}{x} \rightarrow$  then solve  $x \neq 0$ -denominator = 0

# Notes 1.4→<u>EXAMPLES</u>

Write the given problem, then state the domain.



### **Today's assignment: 1.4 #16,30, 7-14, 15-310dd**

Simplify the rational expression 16.  $\frac{4(x^2-1)}{\frac{12}{x+2}(x+2)(x-1)} = \frac{(4)(x+1)(x-1)}{(4)(2)(x+2)(x-1)} = \frac{(x+1)}{(2)(x+2)(x-1)} = \frac{(x+1)}{(2)(x+2)(x-1)}$  $30. \frac{x^{2} - x - 6}{x^{2} + 2x} \cdot \frac{x^{3} + x^{2}}{x^{2} - 2x - 3} = \frac{(x - 3)(x + 2)(x)}{(x + 2)(x + 2)(x + 1)(x - 3)}$ 

**Check evens for today:** 

8. x=real numbers

10. 
$$t \neq -2$$
 12.  $x > 1$ 

14.  $x \ge 0$   $(x \ne -1 isn't necessary since it)$ *is already excluded from x \ge 0* 



- Check odd answers as you progress through the assignment.
- If something is incorrect, try to find your error and fix it...or ask someone how they solved the problem.
- Homework (written and online) is graded on completion and is worth 5 points per assignment.
- Late work is not accepted unless you come in during tutorial to finish it. Two late assignments per unit allowed.