Regents Geometry + LAB **Name: _____ Due: _____ Class: _____**
Bridge to Unit 2

1. Since we know that the statements "segments with equal measure are congruent" AND "congruent segments have equal measure", what do you think the symbol means when used like the following: "segments with equal measure $\leftrightarrow$ $\cong$ segments"?

2. **Inductive reasoning** means that we look at patterns and make a conjecture based on that pattern. I listed the following: A, E, I. What do you think comes next? ____ Defend your choice:

3. Given the algebraic equation, match the **algebraic property** which justifies each step that generates an equivalent equation for $4(x+3)-6=6$

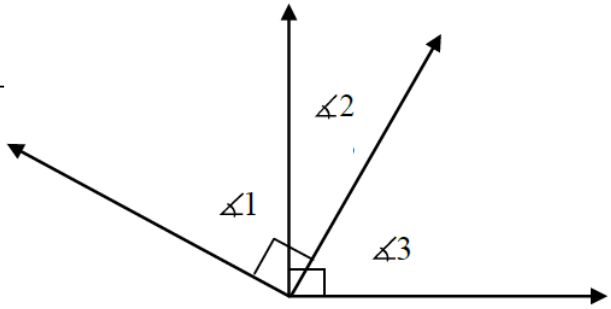
a. ____	$4x+12-2=6$	1) Addition or Subtraction Property of Equality
b. ____	$4x+10=6$	2) Multiplication or Division Property of Equality
c. ____	$4x=-4$	3) Simplification
d. ____	$x=-1$	4) Distribution

4. If x=8 and 8=y, then what do you know about x & y? _____

5. If I said that **ALL** Ballston Spa students clean their rooms on Friday night, would you believe me? _____ Why or why not?

6. If I said, "Ballston Spa's mascot is the Scottie Dog, **and** our colors are red & black," was I being truthful? _____ Why or why not?

7. Look at the drawing at right.



   a. What conclusion can you make about $\angle 1 \& \angle 3$? _____

   b. Here is the proof; see if you can match the reasons:

      1) ____ $m\angle 1+m\angle 2=90°; m\angle 3+m\angle 2=90°$
      2) ____ $m\angle 1+m\angle 2=m\angle 3+m\angle 2$
      3) ____ $m\angle 2=m\angle 2$
      4) ____ $m\angle 1=m\angle 3$
      5) ____ $\angle 1\cong\angle 3$

A)	Substitution
B)	Definition of Complementary Angles
C)	Definition of Congruency or $=$ measure $\leftrightarrow\cong$ figures
D)	Subtraction Property of Equality
E)	Reflexive Property of Equality