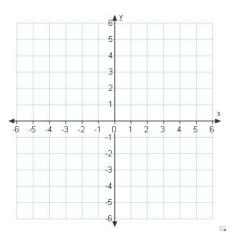
Show Me What Ya Got!- Intro to Math 2

Name:	
Date: _	Period:

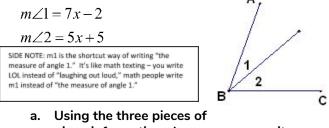
Some of the questions below are directly from math 1, and some of them are not! Be creative. If you do not know, that is okay! I want to see you try. No judgement will be coming to you from me! I would like to see that you somehow attempted every problem. This is just for me to look at!



a.) x = 2b.) y = 4c.) y = x (Hint: this is y = 1x + 0) d.) y = -x (Hint: this is y = -1x + 0)



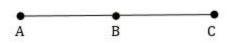
2. Angle Addition Postulate:



- given information above, can you write an equation?
- b. Try to find the value of x. Use any method you can think of! x =_____

3. Solve the following system of equations, using any method (Hint: there are three different methods that you have learned in math 1 to solve a system of equations!). Show your work in the space below.

4. Let $\overline{AB} \cong \overline{BC}$, AC = 20, and AB = x + 6



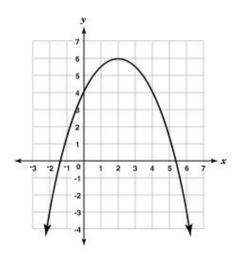
*This symbol, ≅, means congruent.

- a. What does "congruent" mean?
- **b.** If AB = x + 6, what can we say about BC?

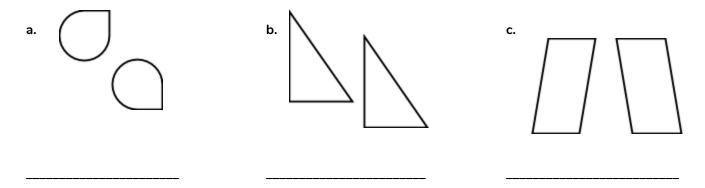
c. Try to write an equation and solve for x using

the diagram and three pieces of given information.

- a. Where is the axis of symmetry?_
- b. On the graph, circle the "roots" or "zeroes".
- c. Where is the y- intercept? _____
- d. Where is the vertex located? _____



6. State the transformation performed on each of the following pairs of shapes.



7. Factor the quadratic expression $x^2 - 7x - 18$ *Hint: when factoring a quadratic trinomial, your answer should be in parenthesis like this: ()().

8.) Identify the slope of the line $y = -9x + \frac{3}{2}$

9. Given point A at (5, 5) and point B at (1, -3), what are the coordinates of the midpoint of segment \overline{AB} ?

10.) The exponential function $y = 6(2)^x$ represents the size of a Rattata population after x months. How large will the population be after 2 years?