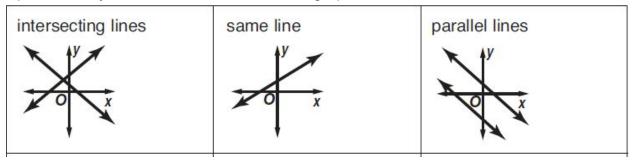
Robots & Math Teacher Name	Name: Per	
Group Quiz 1 Show ALL work and box final answers.		
1a.) If a LinkBot's wheels are turning at a speed of 200 deg seconds, how far will it travel (in inches)?	grees per second for 10	
1b.) If a LinkBot's wheels are turning at a speed of 450 deseconds, how far will it travel (in inches)?	grees per second for 8	
2a.) Suppose we need our Linkbot to travel exactly 70 inch What speed will the robot have to travel in degrees per sec		i-

2b.) Suppose we need our Linkbot to travel exactly 55 inches in exactly 15 seconds.

What speed will the robot have to travel in degrees per second to achieve this?

3.) How many solutions are shown in each graph below?

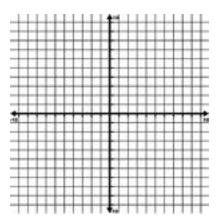


- a.)
- b.) _____
- c.) _____

4.) Solve the following system of linear equations by graphing. **State the number of solutions.** If a solution does exists, indicate what it is.

$$y = 2x + 1$$

$$y = x - 4$$



number of solutions:

solution (if any): _____

5.) Solve using substitution.

$$y = 4x - 8$$

$$y = 2x + 2$$