

Robots & Math
Teacher Name

Name: _____
Date: _____ Per: ____

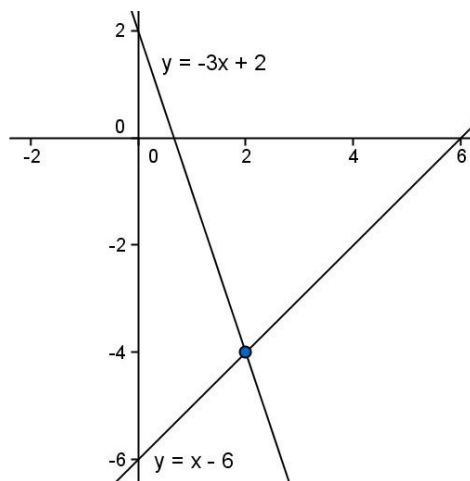
Group Quiz 2

Show ALL work and box final answers.

1) A tire with a 3.5 inch diameter rotates 650 degrees. How far has the tire traveled?

2) You have a linkbot wheel with a 12 inch circumference that must travel 19 inches. How many degrees do the wheels need to be programmed to spin?

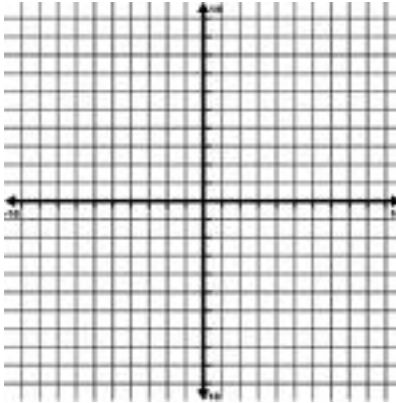
3) The following graph shows a linear system. Does the system have one solution, no solutions, or infinitely many solutions? If it has a solution, name it.



4) Solve the following system by graphing.

$$y = -4x + 8$$

$$y = 3x + 1$$



Solution: _____

5) Solve the following systems using substitution.

a) $y = 7x - 3$
 $y = -x + 13$

b) $y = -6x - 3$
 $-8x + 8y = 88$

6) Solve the following systems using elimination.

a) $4x + 8y = 20$
 $-4x + 2y = -30$

b) $7x + 2y = 24$
 $8x + 2y = 30$

c) $-4x + 9y = 9$
 $x - 3y = -6$