

Name: _____

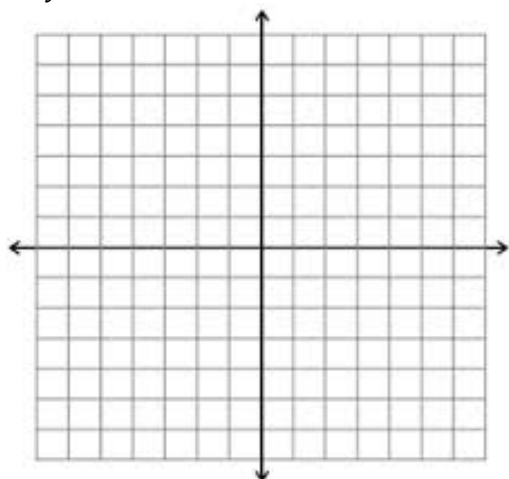
Date: _____

Algebra 1

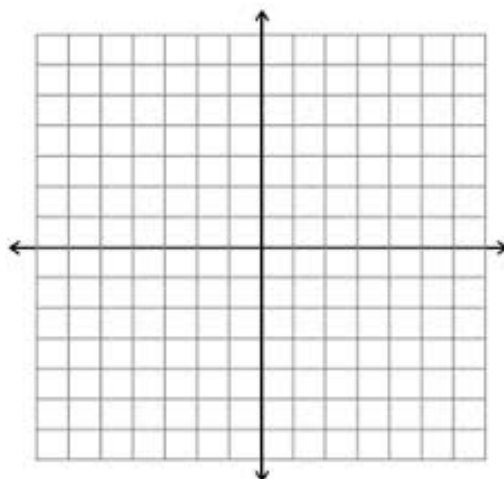
Band: _____

Systems of Linear and Quadratic Equations Homework**Learning Target #6:** Solve systems of linear and quadratic equations.**Solve by graphing.**

1. $y = x^2 + 1$
 $y = x + 1$



2. $y = x^2 + 2x + 1$
 $y = x + 1$

**Solve using elimination.**

3. $y = x^2$
 $y = x + 2$

4. $y = -x - 7$
 $y = x^2 - 4x - 5$

Solve using substitution.

5. $y = x^2 - 2x - 6$
 $y = 4x + 10$

6. $y = 3x - 20$
 $y = -x^2 + 34$

7. A classmate says that the system $y = x^2 + 2x + 4$ and $y = x + 1$ has one solution. Explain the classmate's error.

8. Explain why a system of linear and quadratic equations cannot have an infinite number of solutions.