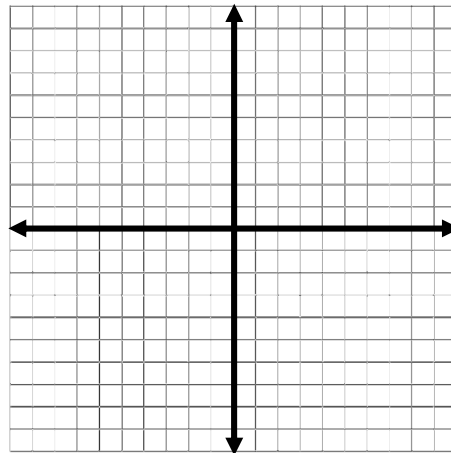


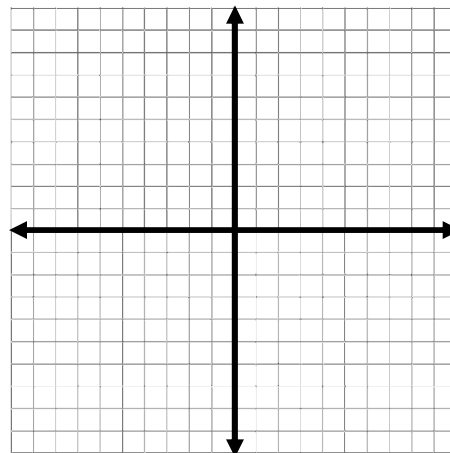
Assignment 5A1: Systems of Equations of 2 Variables

Solve the system of equations by graphing, substitution, and elimination.

1. $y = \frac{1}{2}x - 7$
 $5x + 2y = 10$



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



Solve the systems algebraically and check your answer graphically on a graphing app.

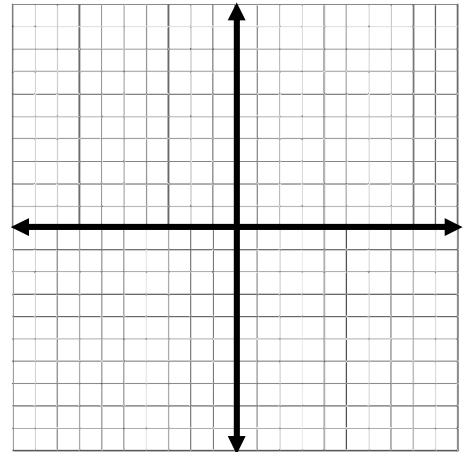
3. $x = y + 3$, $x - y^2 = 3y$

4. $y = 2x^2 + x$, $2x + y = 20$

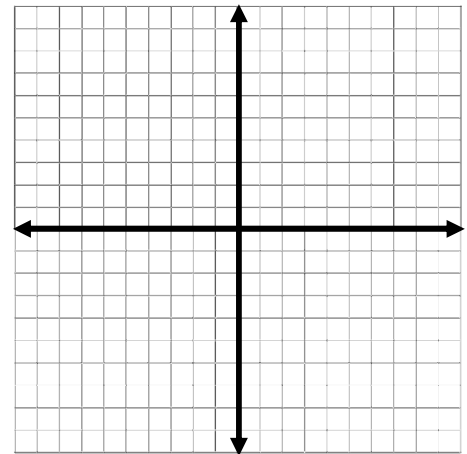
5. $y = x^3 + 3x^2$, $y = -2x - 6$

Find the intersections (if any) of the circle and the given curve algebraically. Then graph the two equations to verify your answer.

6. $x^2 + y^2 = 9$
 $y = x + 1$



7. $x^2 + y^2 = 25$
 $y = -2x + 3$



8. $x^2 + y^2 = 4$
 $y = -x + 8$

