

Topic 7.7
Solving Quadratic Systems
Homework

Name: _____
Date: _____

Solve each system of equations algebraically.

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

2) $x = y^2$
 $(x+3)^2 + y^2 = 53$

3) $2x = 6y^2 + 8$
 $x + (y+2)^2 = 20$

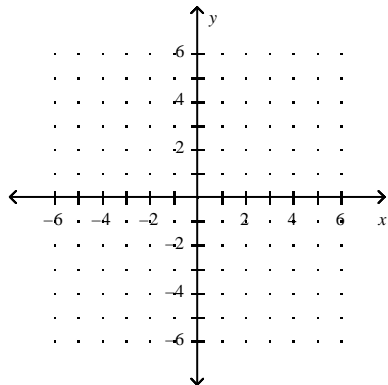
4) $x^2 + y^2 = 12$
 $x^2 - y^2 = 6$

5) $x^2 + y^2 = 9$
 $2x^2 + 2y^2 = 8$

6) $4x^2 + 2y^2 = 12$
 $2x^2 + 6y^2 = 6$

Solve each system of inequalities by graphing.

7) $x^2 + y^2 < 9$
 $(x-2)^2 + (y+3)^2 < 4$



8) $\frac{(x-1)^2}{4} + \frac{(y+1)^2}{9} \leq 1$
 $\frac{(x+2)^2}{4} - \frac{(y-1)^2}{1} \geq 1$

