

## Systems of Inequalities Day 2

Date \_\_\_\_\_ Period \_\_\_\_\_

**Sketch the solution to each system of inequalities.**

1)  $x - y > 2$   
 $x + 3y \geq 6$

2)  $x \leq -2$   
 $x + y > 1$

3)  $x - 2y \leq 6$   
 $2x + y > 2$

4)  $x + 3y > -3$   
 $x - 3y \geq 9$

5)  $y > -\frac{1}{2}x + 2$   
 $y \leq -3x - 3$

6)  $y < \frac{2}{3}x - 1$   
 $y > \frac{2}{3}x + 2$

7)  $y \leq -\frac{4}{3}x + 2$   
 $y < -\frac{4}{3}x - 1$

8)  $y \leq x + 3$   
 $y > 2$

- 9) Jason is buying grapes for a picnic. Green grapes cost \$2 a pound and red grapes cost \$3 a pound. He plans to buy at least 4 pounds of grapes and spend no more than \$20. List two possible combinations of the number of pounds of green and red grapes he could buy.