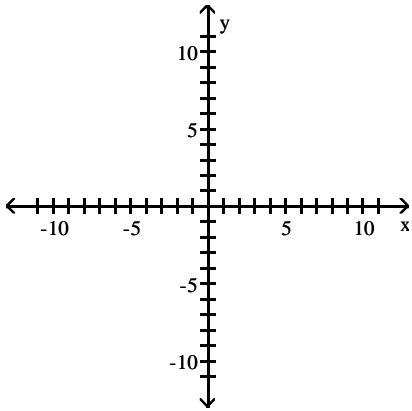


Name \_\_\_\_\_

Graph the inequality.

1)  $y \geq x - 5$

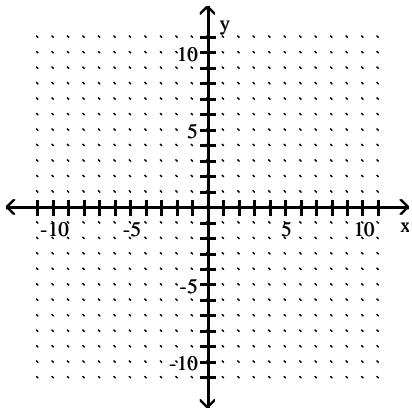
1) \_\_\_\_\_



Objective: (11.7) Graph an Inequality

2)  $x + y < -5$

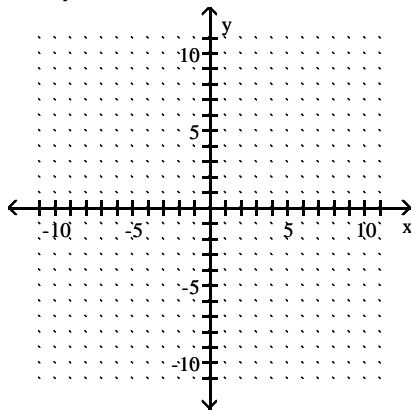
2) \_\_\_\_\_



Objective: (11.7) Graph an Inequality

3)  $x^2 + y^2 \leq 36$

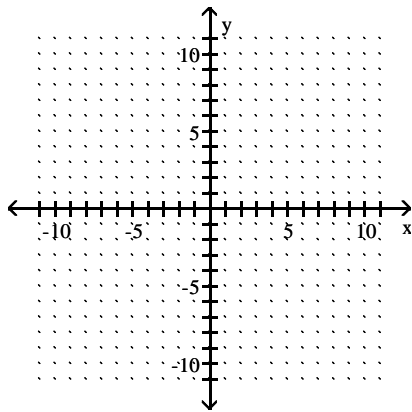
3) \_\_\_\_\_



Objective: (11.7) Graph an Inequality

4)  $x^2 + y^2 > 9$

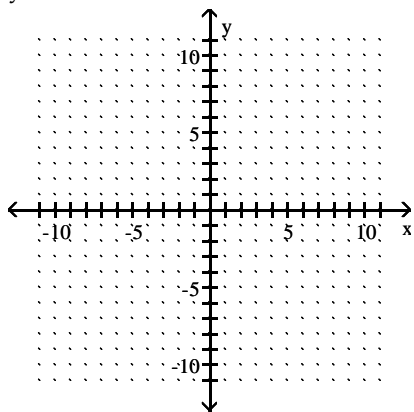
4) \_\_\_\_\_



Objective: (11.7) Graph an Inequality

5)  $y > x^2 + 4$

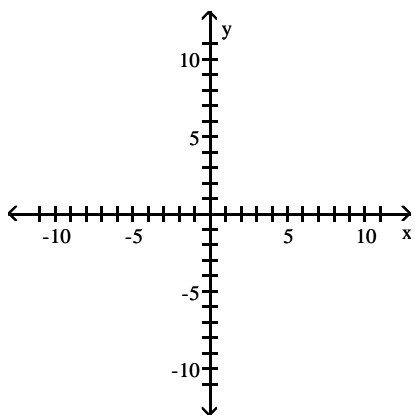
5) \_\_\_\_\_



Objective: (11.7) Graph an Inequality

6)  $xy \leq 2$

6) \_\_\_\_\_

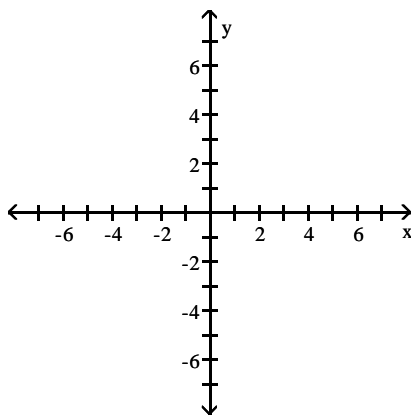


Objective: (11.7) Graph an Inequality

Graph the system of inequalities.

7)  $y > 4$   
 $x \geq 2$

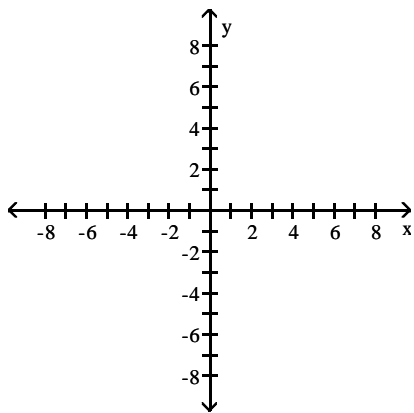
7) \_\_\_\_\_



Objective: (11.7) Graph a System of Inequalities

8)  $2x + y > 8$   
 $2x + y < 1$

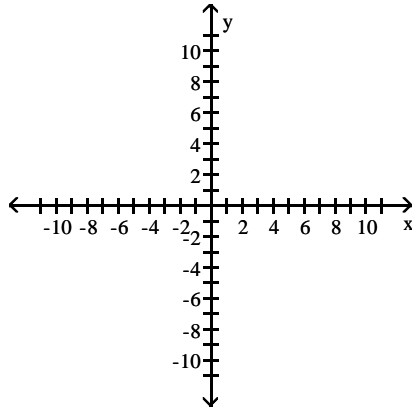
8) \_\_\_\_\_



Objective: (11.7) Graph a System of Inequalities

9)  $-3x + y < 9$   
 $-3x + y > 1$

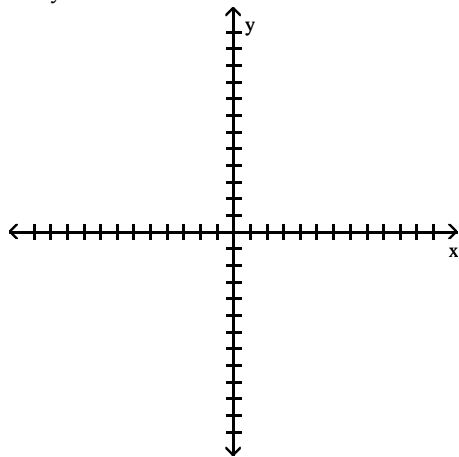
9) \_\_\_\_\_



Objective: (11.7) Graph a System of Inequalities

10)  $y \geq x^2$   
 $x + y > 4$

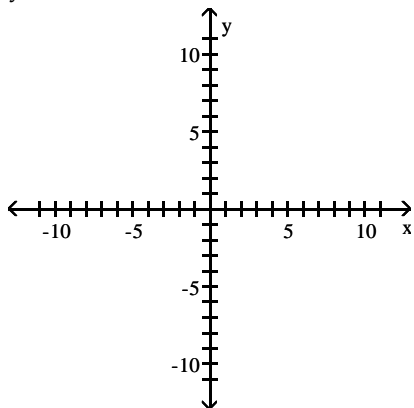
10) \_\_\_\_\_



Objective: (11.7) Graph a System of Inequalities

11)  $x^2 + y^2 \leq 64$   
 $y - x^2 > 0$

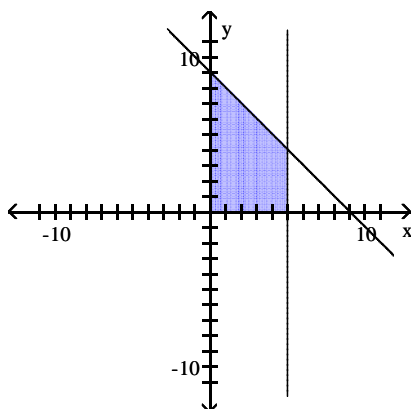
11) \_\_\_\_\_



Objective: (11.7) Graph a System of Inequalities

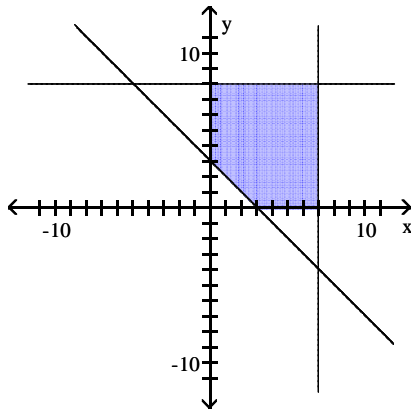
Write a system of linear inequalities that has the given graph.  
 12)

12) \_\_\_\_\_



Objective: (11.7) Graph a System of Inequalities

13)



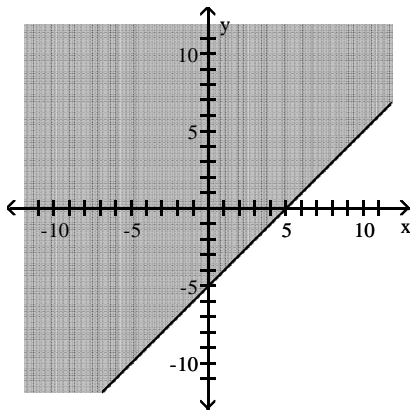
Objective: (11.7) Graph a System of Inequalities

13) \_\_\_\_\_

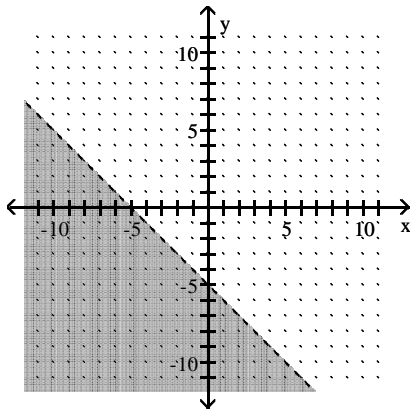
Answer Key

Testname: MATH2\_CH11\_INEQUALITIES\_HW\_9

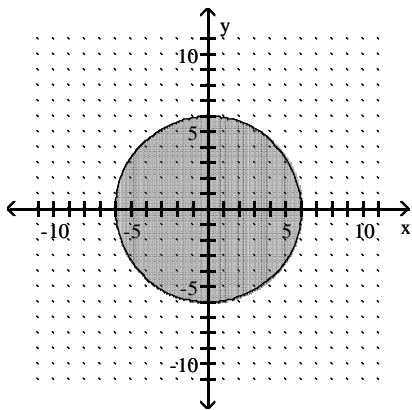
1)



2)



3)

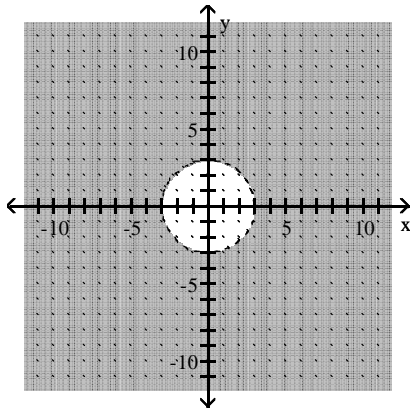




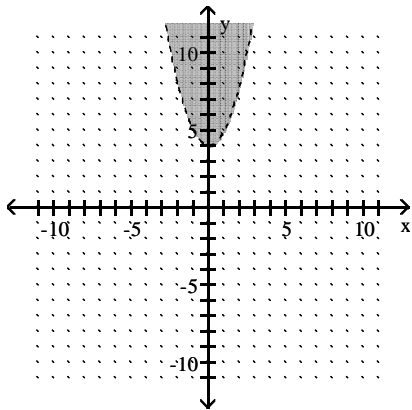
Answer Key

Testname: MATH2\_CH11\_INEQUALITIES\_HW\_9

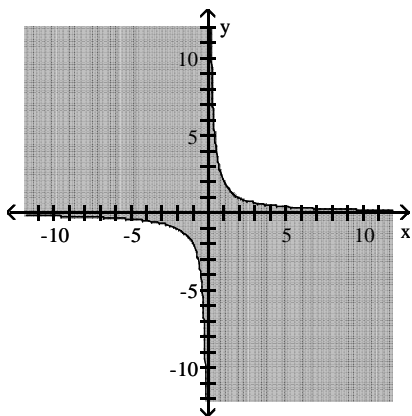
4)



5)



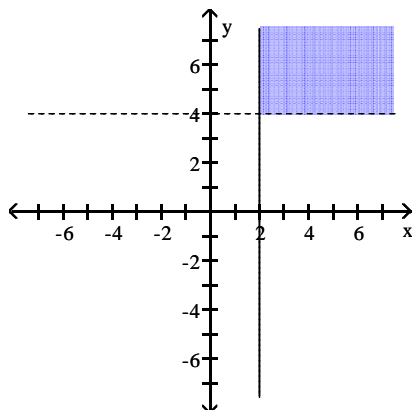
6)



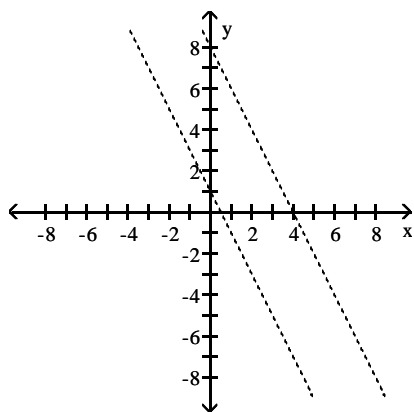
Answer Key

Testname: MATH2\_CH11\_INEQUALITIES\_HW\_9

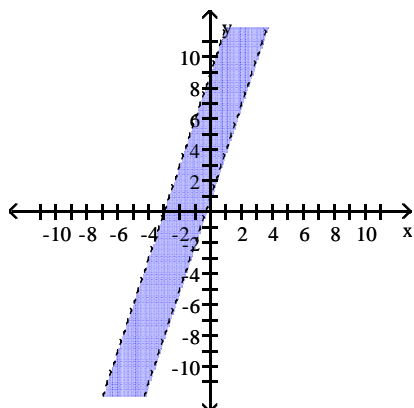
7)



8) No solution



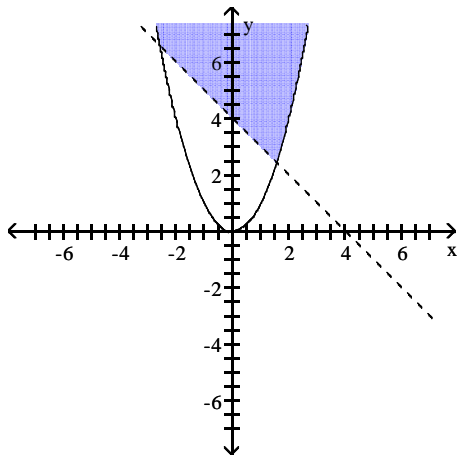
9)



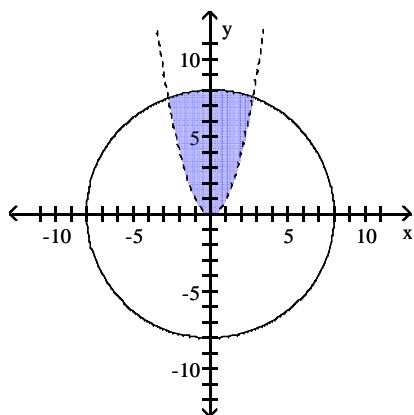
Answer Key

Testname: MATH2\_CH11\_INEQUALITIES\_HW\_9

10)



11)



12)

$$\begin{cases} y \geq 0 \\ x \geq 0 \\ x \leq 5 \\ y + x \leq 9 \end{cases}$$

13)

$$\begin{cases} y \geq 0 \\ x \geq 0 \\ x \leq 7 \\ y \leq 8 \\ x + y \geq 3 \end{cases}$$