

Topic 3.4  
Graphing Systems of Inequalities  
Homework

Name: \_\_\_\_\_

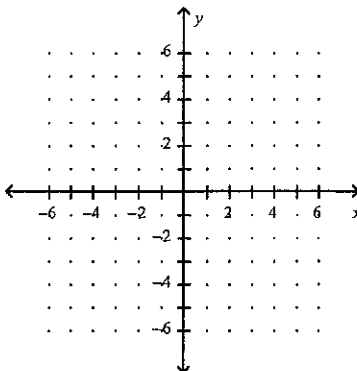
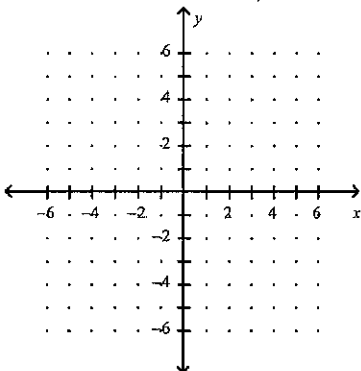
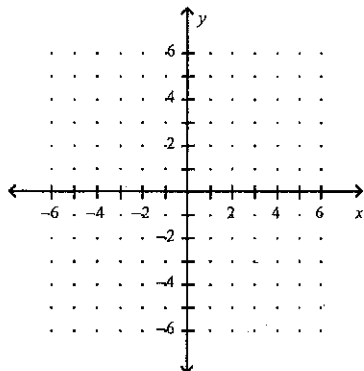
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Graph the system of inequalities.

1.  $y > 2x + 1$   
 $y < x - 2$

2.  $x \geq -1$   
 $x + y \leq 3$

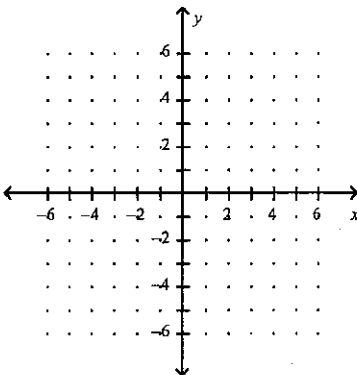
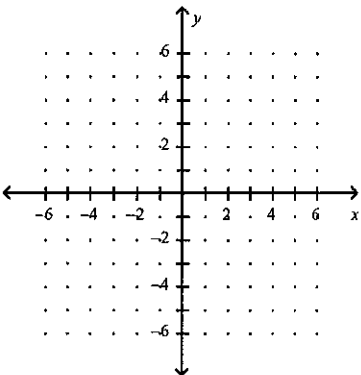
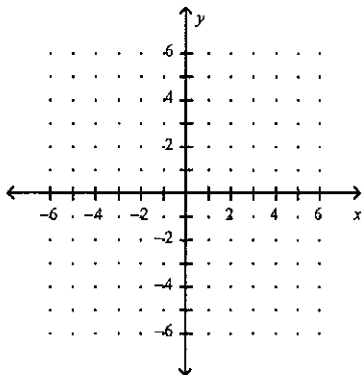
3.  $y > -6$   
 $x \leq -3$



4.  $3x + 5y < 10$   
 $2x - 3y < 6$

5.  $x - 4y \geq -12$   
 $2x - 2 < y$

6.  $5y - 8x < 3$   
 $4x - 2y > 1$



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packet 4

Name: 1  
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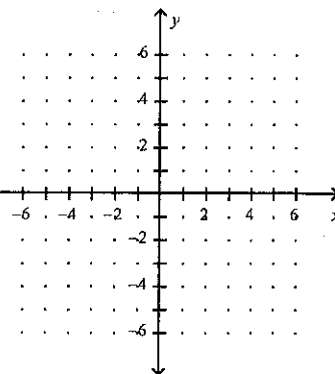
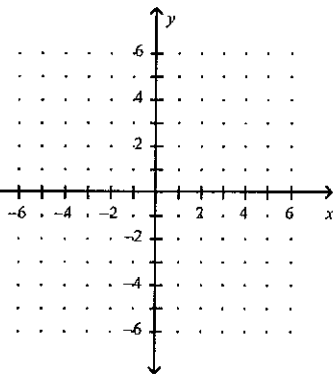
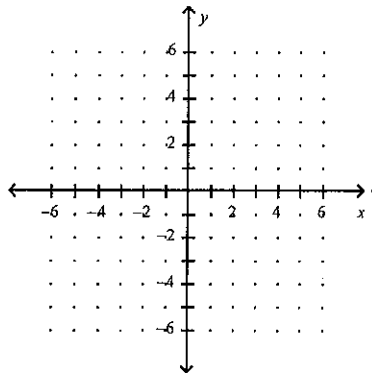
7.  $y > -2$

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

8.  $y < 2x + 1$

9.  $y > -\frac{1}{2}(x-2) + 5$   
 $3y - 2x \leq 9$

$$y > -\frac{3}{4}(x-4) - 1$$



Algebra II

Graphing Systems of Inequalities

Complete the following exercises in your notebook

Graph each system.

1.  $x < 4$   
 $y > 2$

2.  $x \leq 4$   
 $y \geq x + 1$

3.  $y > 5$   
 $y < \frac{2}{3}x - 1$

4.  $x - y > 4$   
 $x > -\frac{1}{3}y$

5.  $x + y < 2$   
 $2x - y \leq 7$

6.  $y \leq -\frac{2}{3}x + 1$   
 $y \geq -\frac{2}{3}x + 6$

7.  $y \geq 2x - 1$   
 $y < -3(x-1) + 1$

8.  $y < -x + 4$

$y > -3(x-1) - 7$

