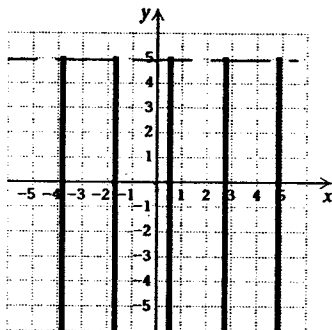


**EXTRA PRACTICE 26**  
**Inequalities in Two Variables**  
 Use After Section 9.4

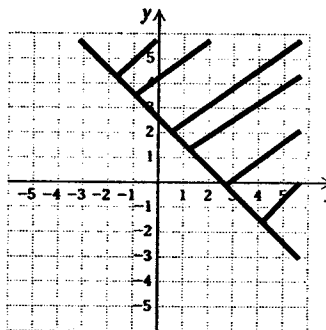
NAME \_\_\_\_\_

Examples: Graph.

a)  $y < 5$



b)  $x + y \geq 3$



Determine if the given ordered pair is a solution to the inequality.

1.  $(3,6)$ ;  $2x + 3y > 8$  \_\_\_\_\_

2.  $(-1,4)$ ;  $2x + 6y < 19$  \_\_\_\_\_

3.  $(3,-8)$ ;  $4x - 8y > 20$  \_\_\_\_\_

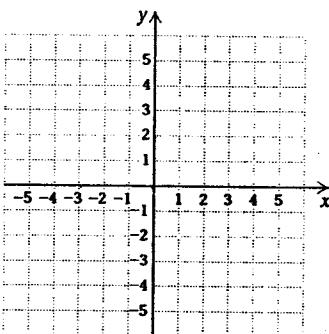
4.  $(1,3)$ ;  $6x + 3y > 10$  \_\_\_\_\_

5.  $(1,1)$ ;  $4x - 3y < -29$  \_\_\_\_\_

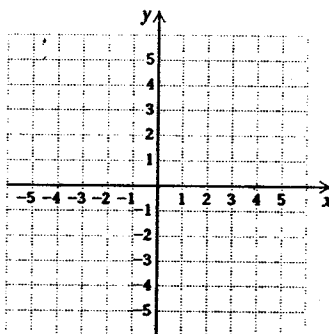
6.  $(6,7)$ ;  $-3x + 9y > 25$  \_\_\_\_\_

Graph.

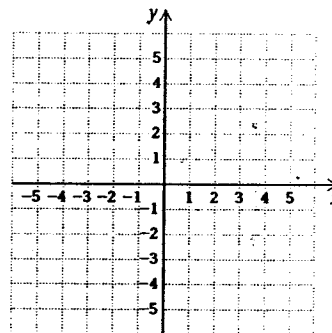
7.  $y < 2$



8.  $x > 3$



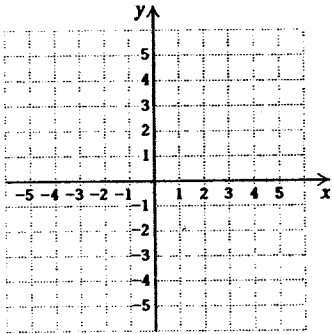
9.  $y \geq 4$



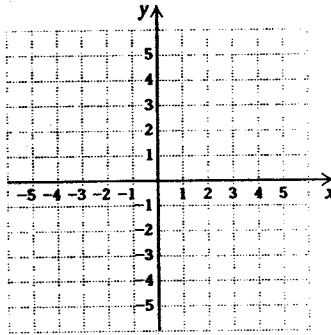
**EXTRA PRACTICE 26**  
**Inequalities in Two Variables**  
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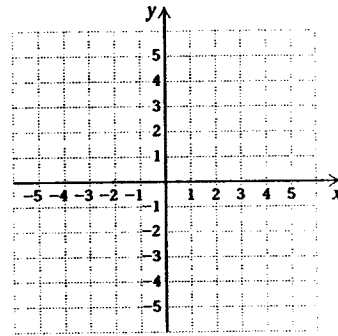
10.  $x \leq 4$



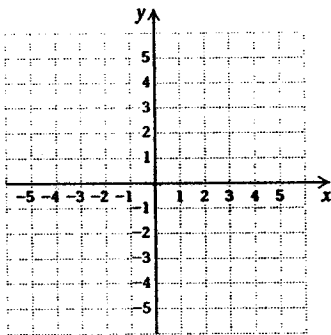
11.  $y < x + 3$



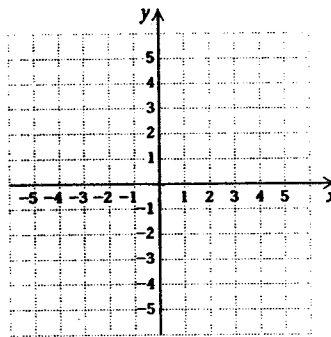
12.  $y \leq x - 5$



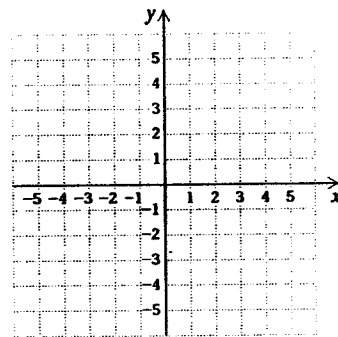
13.  $y > 6 + x$



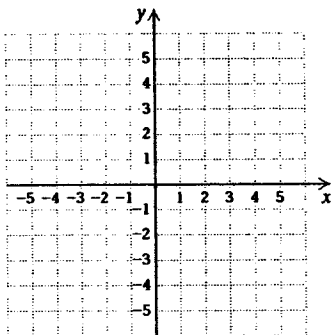
14.  $x \leq 3y + 2$



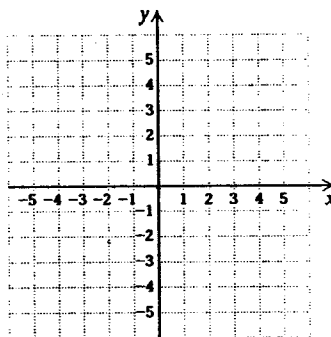
15.  $2x + 3y \geq 5$



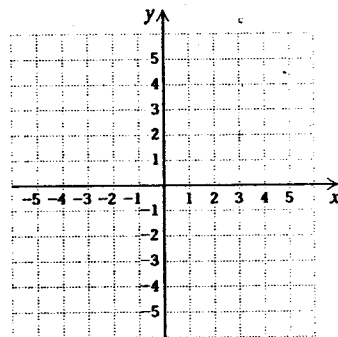
16.  $2y - 5x < 13$



17.  $-5 \leq x < 3$



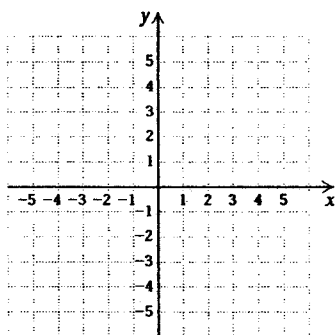
18.  $x - 3y \geq 4$



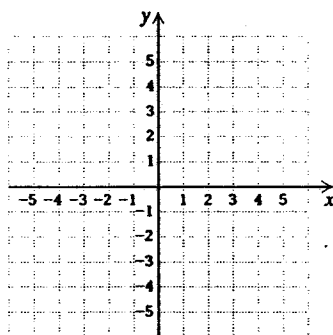
**EXTRA PRACTICE 26**  
**Inequalities in Two Variables**  
 Use After Section 9.4

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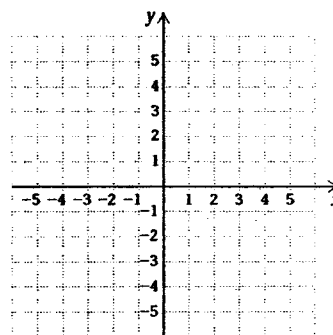
19.  $4x + 3y \geq 7$



20.  $2 < y \leq 4$

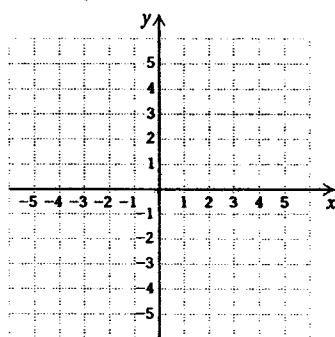


21.  $4x + 2 \leq 3y + x$

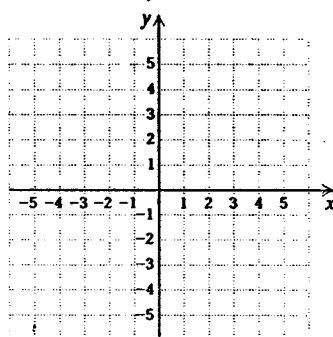


Graph each system.

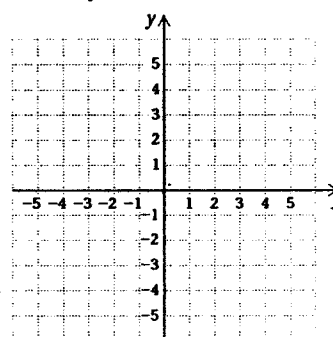
22.  $y \geq 4;$   
 $y \leq 5 + x$



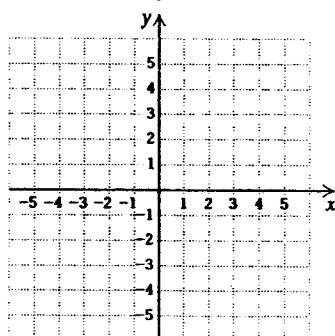
23.  $y < x + 2;$   
 $x < 3y$



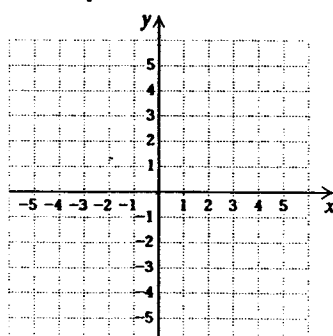
24.  $y > 3x + 2;$   
 $y < x$



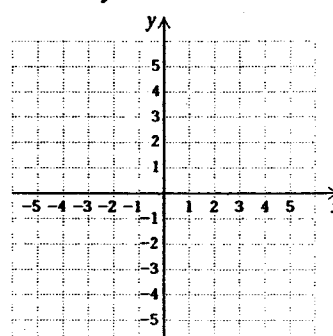
25.  $5x + 2y > 3;$   
 $2x - 3y \leq 4$



26.  $3y \geq 4x;$   
 $y > x - 2$



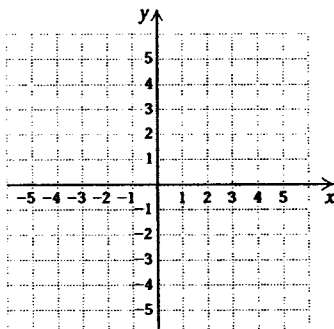
27.  $4x + 3 < y;$   
 $3y \geq 2$



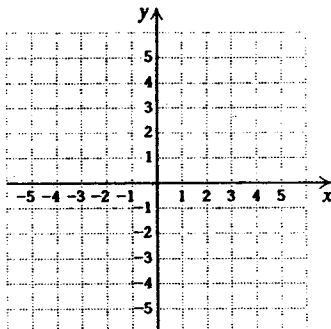
**EXTRA PRACTICE 26**  
**Inequalities in Two Variables**  
 Use After Section 9.4

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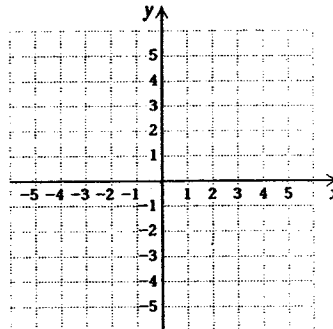
28.  $6x + 3 \leq y + 2;$   
 $x \geq 0$



29.  $x + y > 0;$   
 $3y < x + 3$

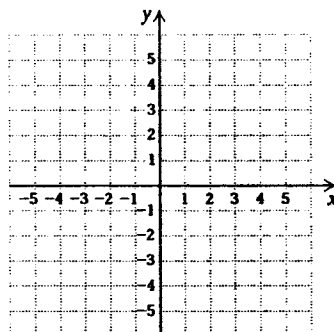


30.  $4x + 3y < 5;$   
 $5x \geq 3y$

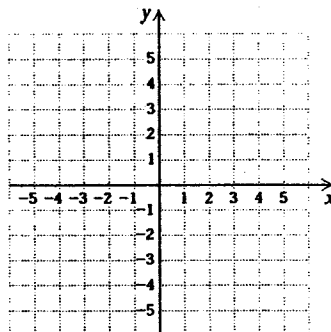


Graph the system. Find coordinates of any vertices formed.

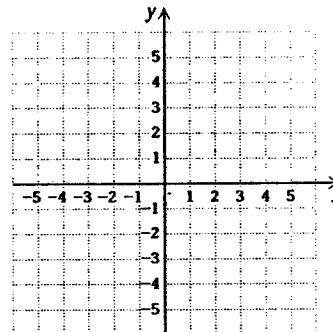
31.  $y \geq 2x + 3;$   
 $y \leq 5x - 2;$   
 $x \geq 3$



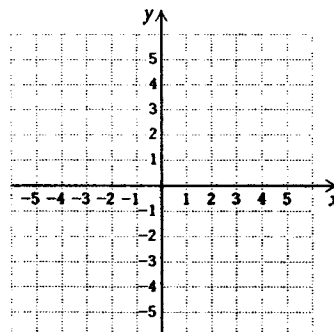
32.  $y \leq 9x - 3;$   
 $x \leq 5;$   
 $x \geq y + 2$



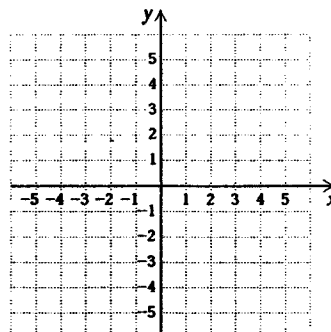
33.  $x + 3y \leq 14;$   
 $3y + 2x \geq 4;$   
 $x + y \geq 4$



34.  $3x + 2y \geq 4;$   
 $3x + 2y \leq 7;$   
 $0 \leq x \leq 1$



35.  $5x + 2y \geq 3;$   
 $2y - 5x \leq 4;$   
 $x \geq 0;$   
 $y \geq 0$



36.  $3x + 2y \geq 6;$   
 $3x + 2y \leq 10;$   
 $x \geq 2;$   
 $y \leq 5$

