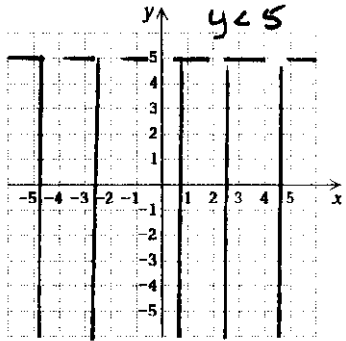


EXTRA PRACTICE 10
Inequalities in Two Variables
 Use After Section 4.4

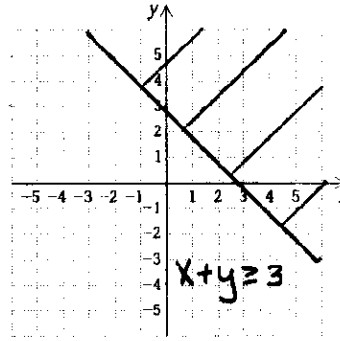
NAME _____

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

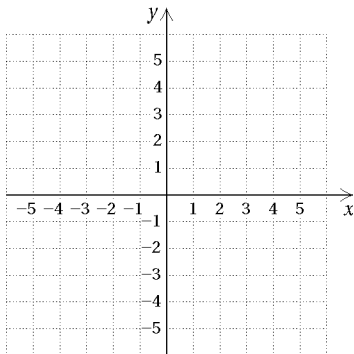
4. $(1,3)$; $6x + 3y > 10$ _____

5. $(1,11)$; $4x - 3y < -29$ _____

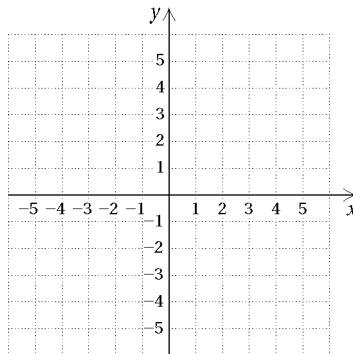
6. $(6,7)$; $-3x + 9y > 25$ _____

Graph.

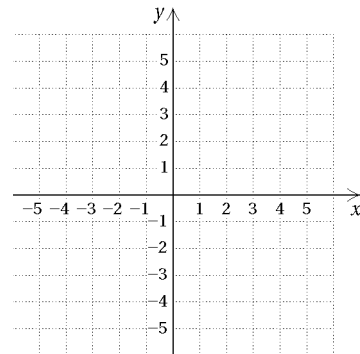
7. $y < 2$



8. $x > 3$

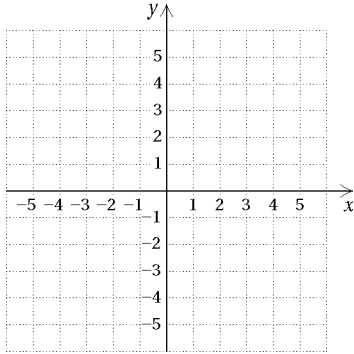


9. $y \geq 4$

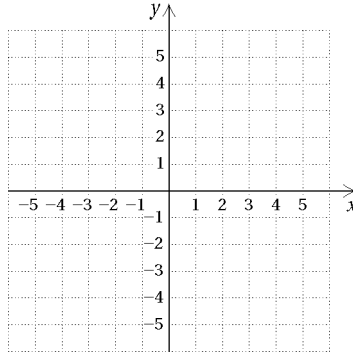


EXTRA PRACTICE 10
Inequalities in Two Variables
Use After Section 4.4

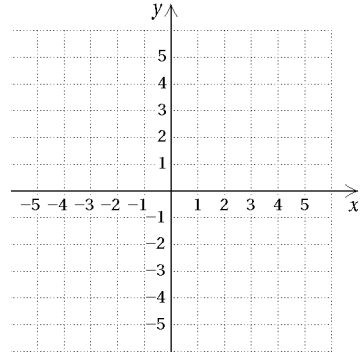
10. $x \leq 4$



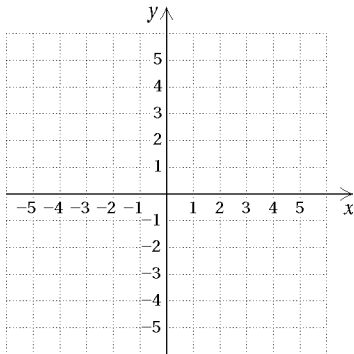
11. $y < x + 3$



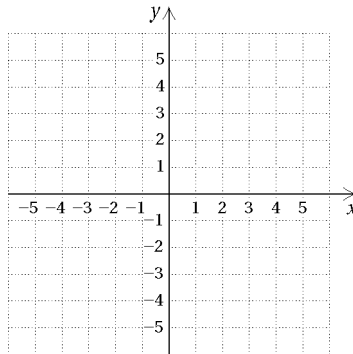
12. $y \leq x - 5$



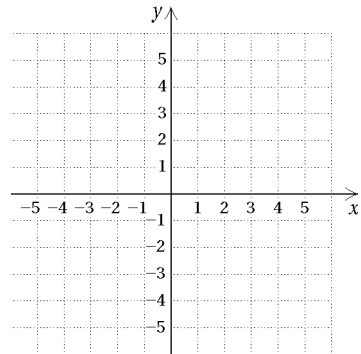
13. $y > 6 + x$



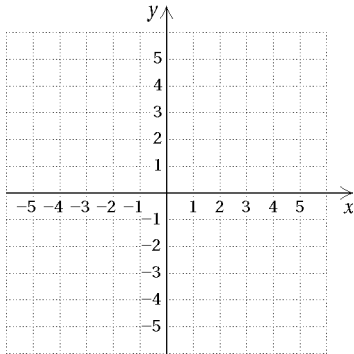
14. $x \leq 3y + 2$



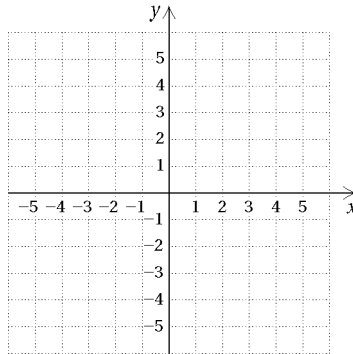
15. $2x + 3y \geq 5$



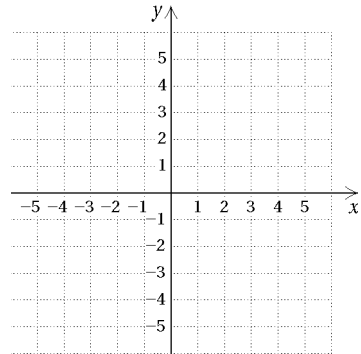
16. $2y - 5x < 13$



17. $-5 \leq x < 3$



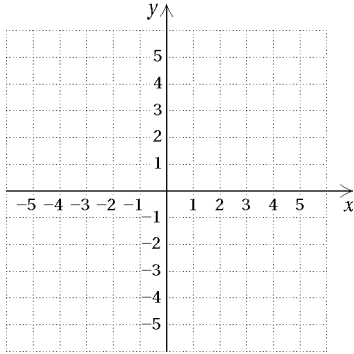
18. $x - 3y \geq 4$



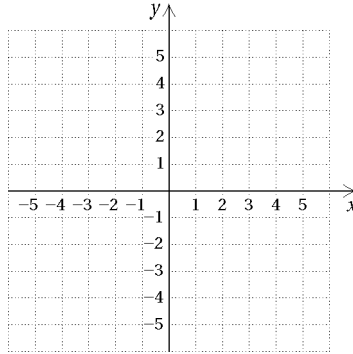
EXTRA PRACTICE 10
Inequalities in Two Variables
 Use After Section 4.4

NAME _____

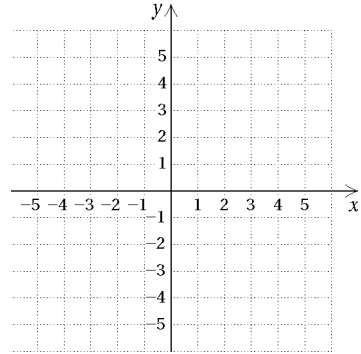
19. $4x + 3y \geq 7$



20. $2 < y \leq 4$

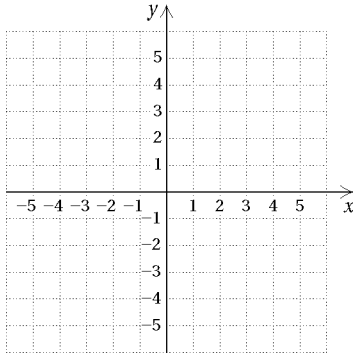


21. $4x + 2 \leq 3y + x$

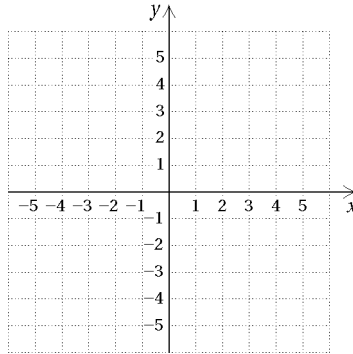


Graph each system.

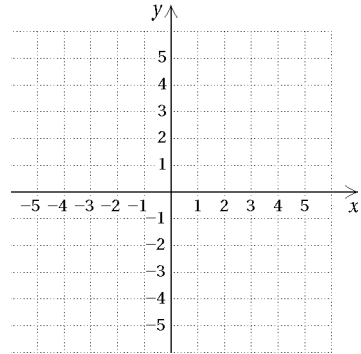
22. $y \geq 4;$
 $y \leq 5 + x$



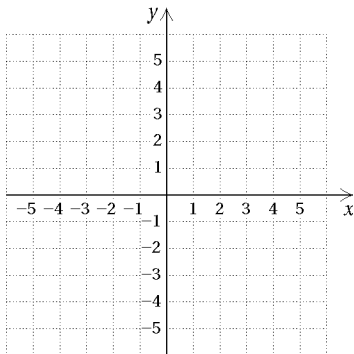
23. $y < x + 2;$
 $x < 3y$



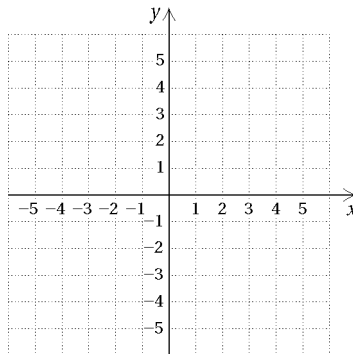
24. $y > 3x + 2;$
 $y < x$



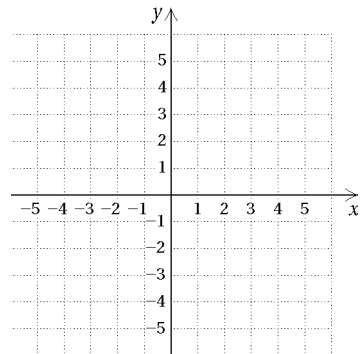
25. $5x + 2y > 3;$
 $2x - 3y \leq 4$



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

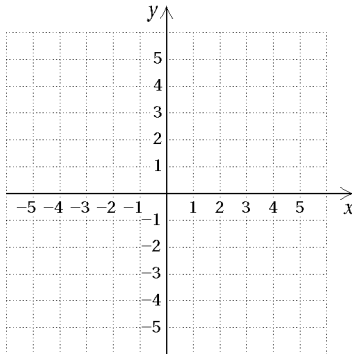


27. $4x + 3 < y;$
 $3y \geq 2$

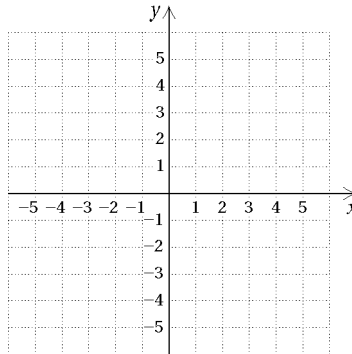


EXTRA PRACTICE 10
Inequalities in Two Variables
Use After Section 4.4

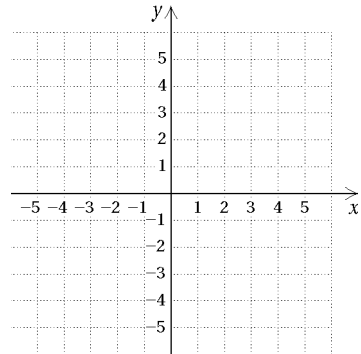
28. $6x + 3 \leq y + 2;$
 $x \geq 0$



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

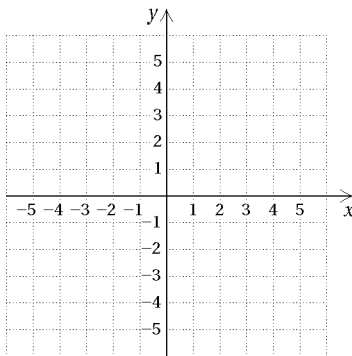


30. $4x + 3y < 5;$
 $5x \geq 3y$

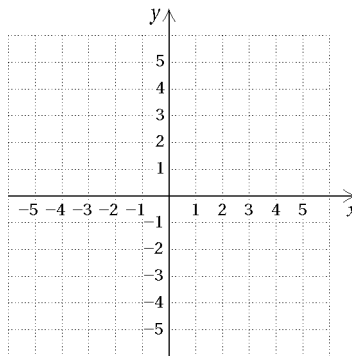


Graph the system. Find coordinates of any vertices formed.

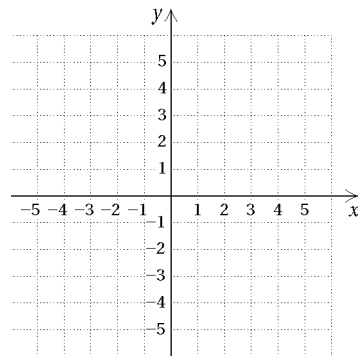
31. $y \geq 2x + 3;$
 $y \leq 5x - 2;$
 $x \geq 3$



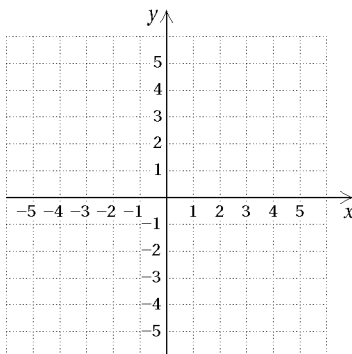
32. $y \leq 9x - 3;$
 $x \leq 5;$
 $x \geq y + 2$



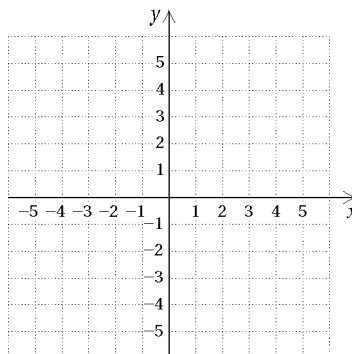
33. $x + 3y \leq 14;$
 $3y + 2x \geq 4;$
 $x + y \geq 4$



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

