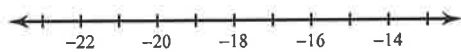


## 4.6 Inequalities Practice

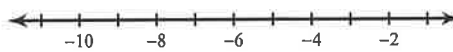
Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each inequality and graph its solution.

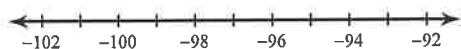
1)  $-5(n - 9) < 4 - 7(n - 1)$



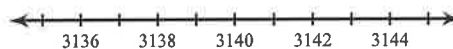
2)  $-(1 - 11x) < 3(5 + 5x)$



3)  $5141 > -53x$

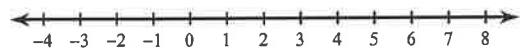


4)  $\frac{n}{73} > 43$

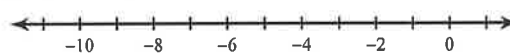


Solve each compound inequality and graph its solution.

5)  $\frac{a}{4} > 0$  and  $a - 7 \leq -2$



6)  $8n > -72$  and  $n - 10 < -11$

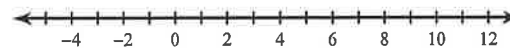


Solve each inequality and graph its solution.

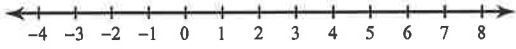
7)  $|-7x + 10| > 17$



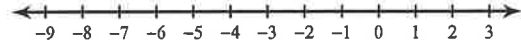
8)  $8|-8 + 2r| > 80$



$$9) \frac{|4n - 7|}{4} \leq 4$$

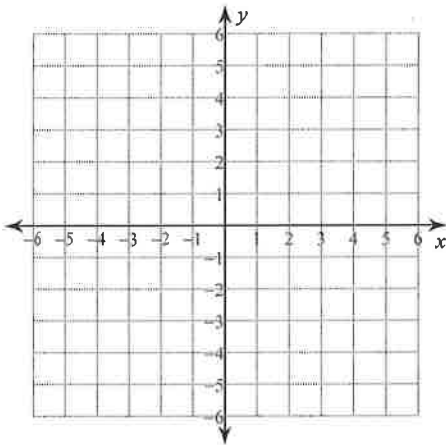


$$10) \frac{|3x + 2|}{8} < 1$$

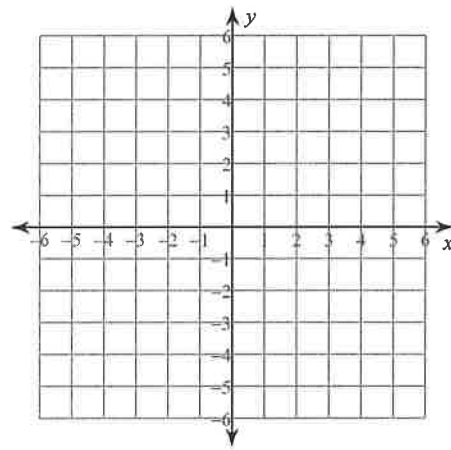


Sketch the graph of each linear inequality.

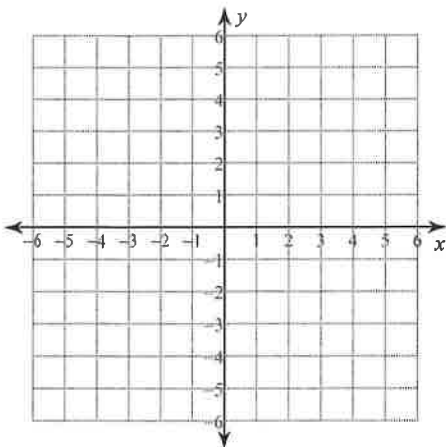
$$11) y \geq -4$$



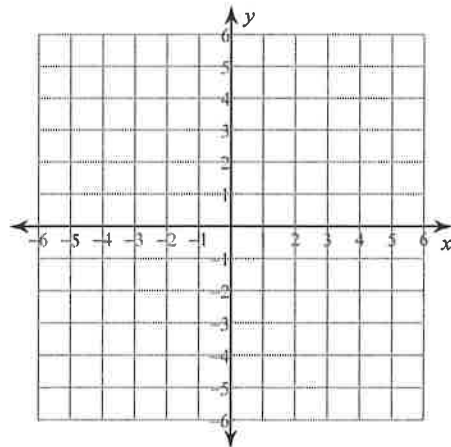
$$12) y \geq \frac{1}{2}x - 1$$



$$13) 4x - 3y \geq -9$$

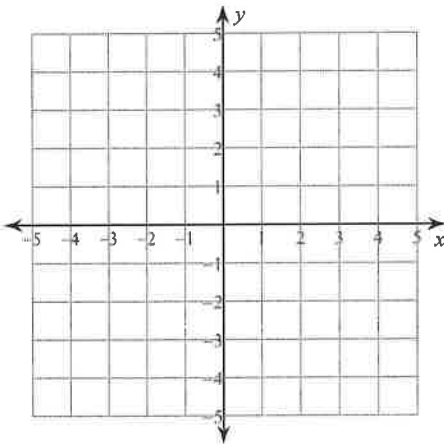


$$14) y \leq -1$$

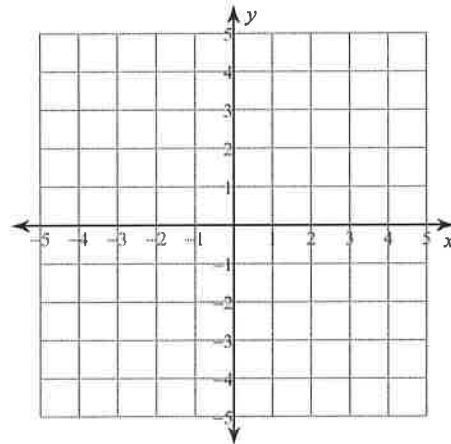


Sketch the solution to each system of inequalities.

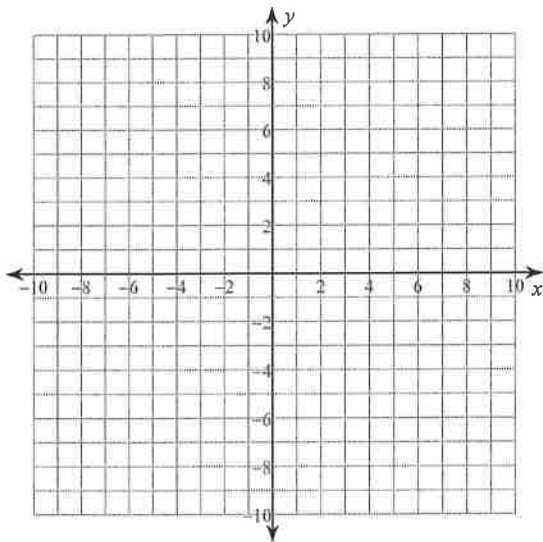
15)  $y \geq -x + 2$   
 $y \geq -4x - 1$



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



17)  $5x - 6y < -12$   
 $5x - 6y \leq 18$



18)  $16x - 3y \leq -24$   
 $y > -8$

