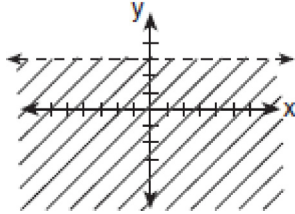
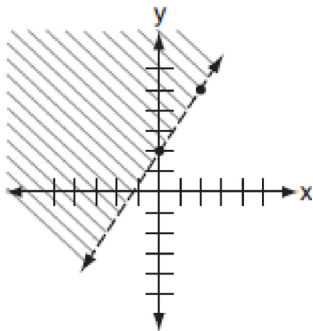


A.G.6: Linear Inequalities 2: Graph linear inequalities

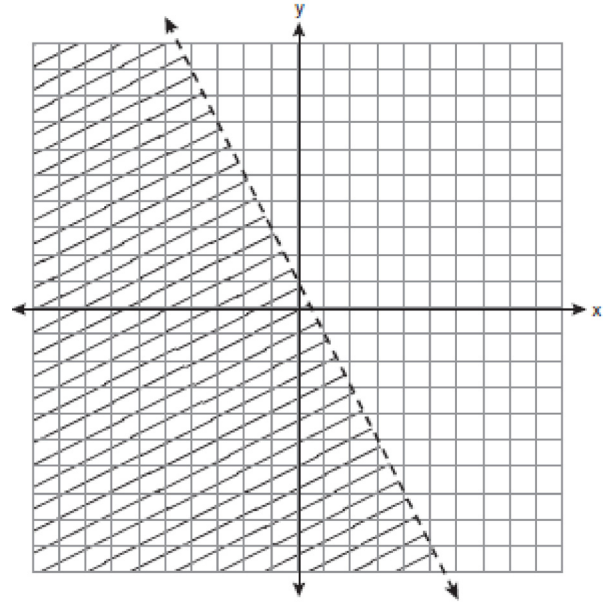
1 Which inequality is represented by the accompanying graph?



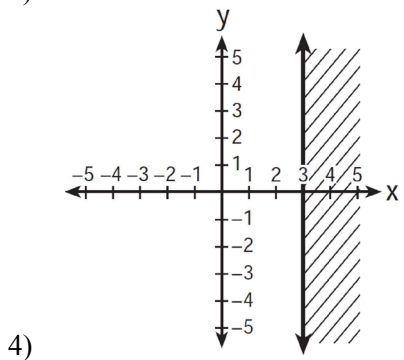
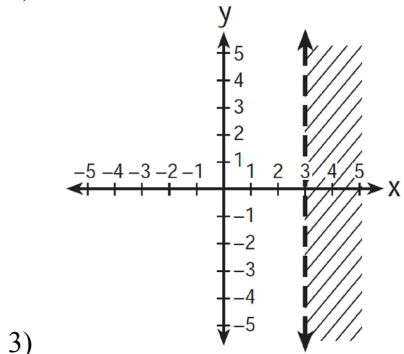
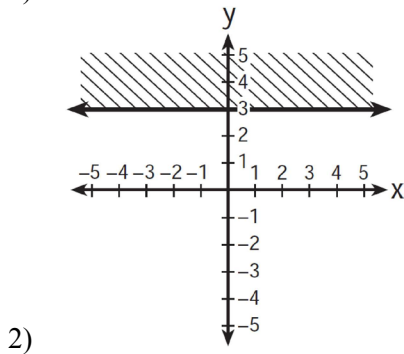
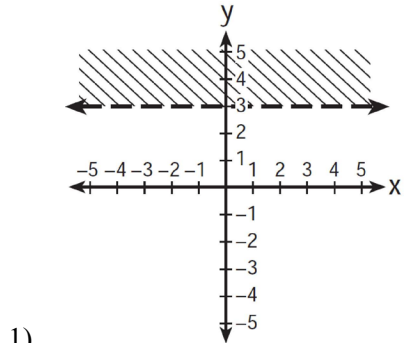
2 Which inequality is shown in the accompanying diagram?



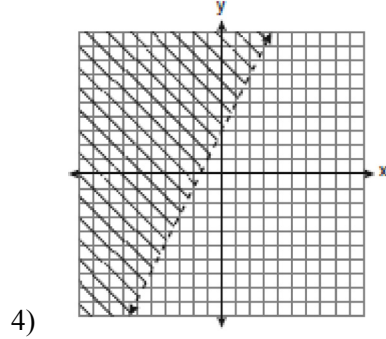
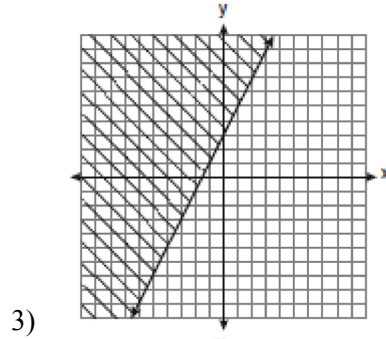
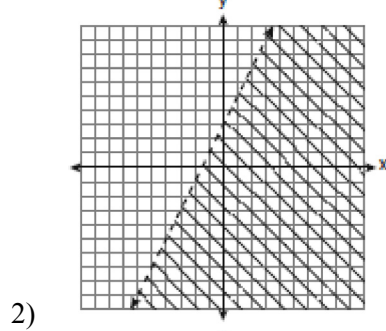
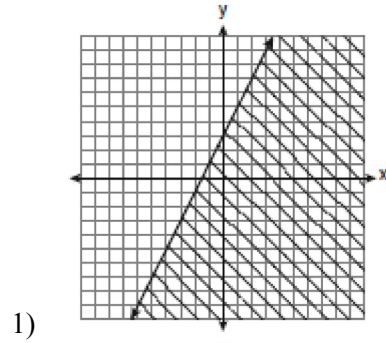
3 Which inequality is represented by the graph below?



4 Which graph represents the inequality $y > 3$?

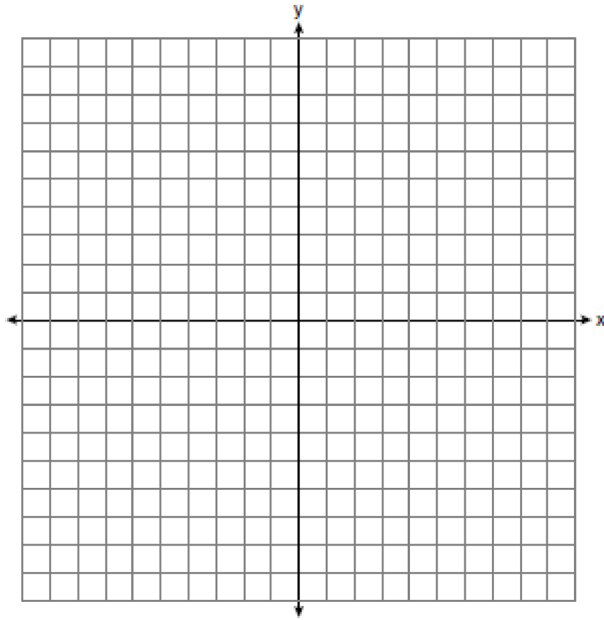


5 Which graph represents the solution of $3y - 9 \leq 6x$?



6 Which quadrant will be completely shaded in the graph of the inequality $y \leq 2x$?

- 7 In the graph of $y \leq -x$, which quadrant is completely shaded?
- 8 Graph the solution set for the inequality $4x - 3y > 9$ on the set of axes below. Determine if the point $(1, -3)$ is in the solution set. Justify your answer.



A.G.6: Linear Inequalities 2: Graph linear inequalities Answer Section

1 ANS:
 $y < 3$

REF: 010629a

2 ANS:
 $y > \frac{3}{2}x + 2$

REF: 010828a

3 ANS:
 $y < -2x + 1$

The slope of the inequality is $-\frac{1}{2}$.

REF: fall0720ia

4 ANS: 1 REF: 011210ia

5 ANS: 1 REF: 060920ia

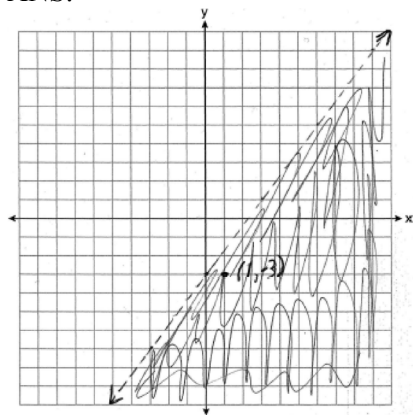
6 ANS:
Quadrant IV

REF: 061028ia

7 ANS:
III

REF: 080220a

8 ANS:



$(1, -3)$ is in the solution set. $4(1) - 3(-3) > 9$

$$4 + 9 > 9$$

REF: 011038ia