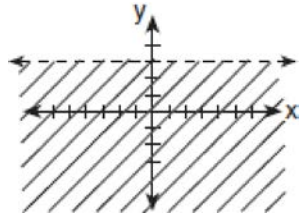
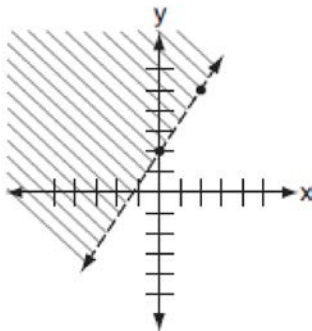


A.G.6: Linear Inequalities 2: Graph linear inequalities

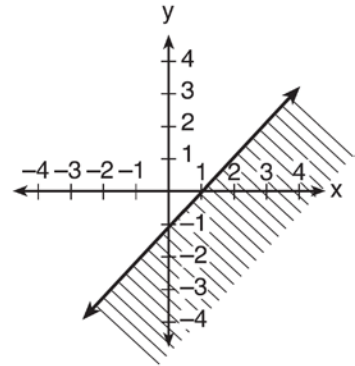
- 1 Which inequality is represented by the accompanying graph?



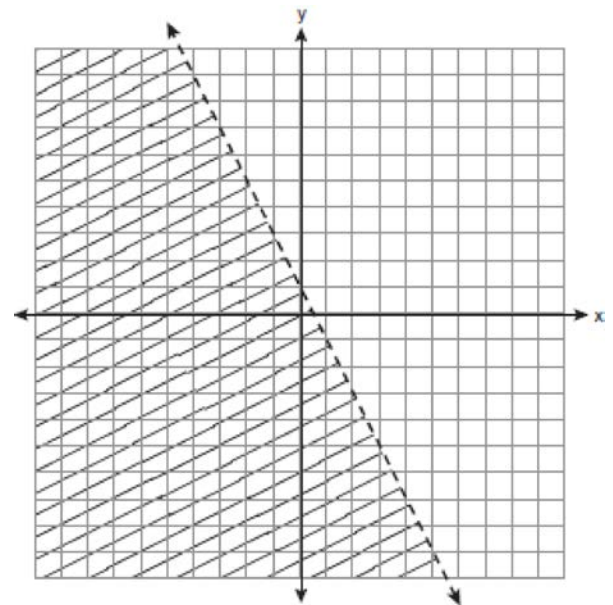
- 2 Which inequality is shown in the accompanying diagram?



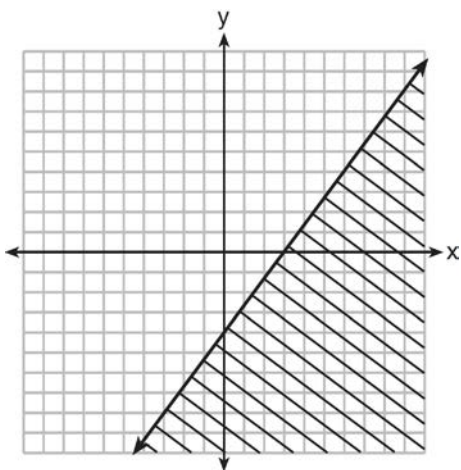
- 3 The diagram below shows the graph of which inequality?



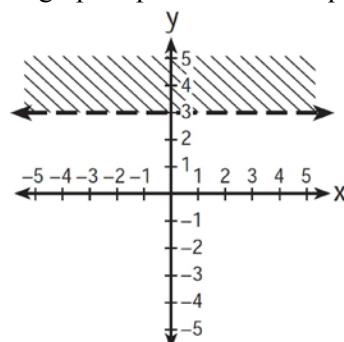
- 4 Which inequality is represented by the graph below?



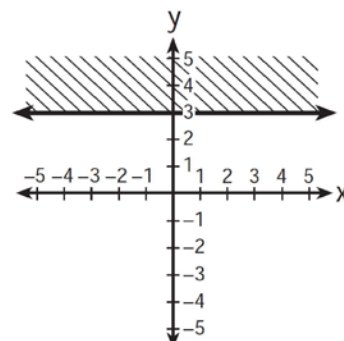
5 Which inequality is shown in the graph below?



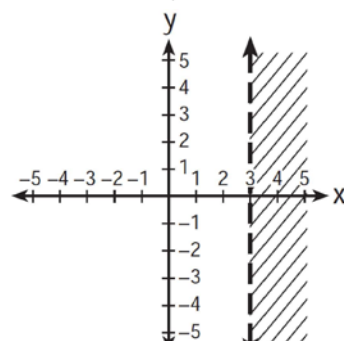
6 Which graph represents the inequality $y > 3$?



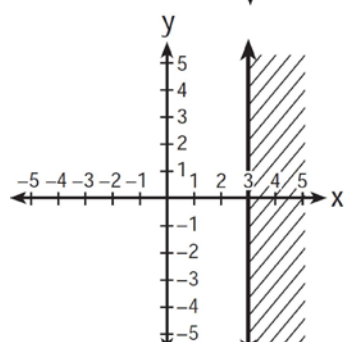
1)



2)

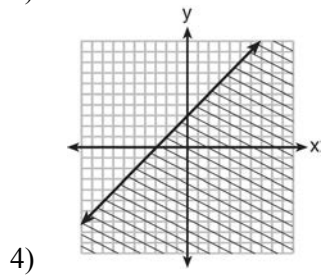
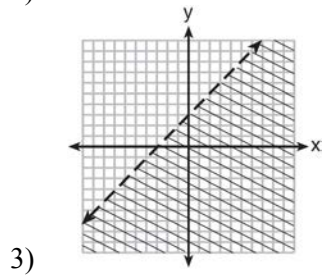
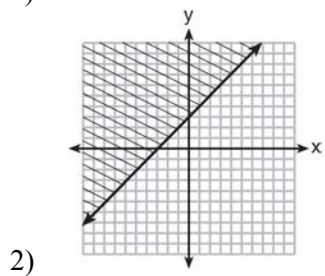
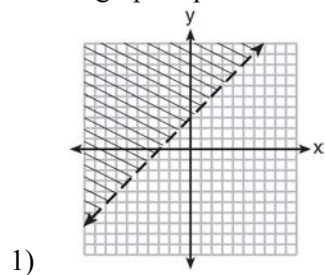


3)

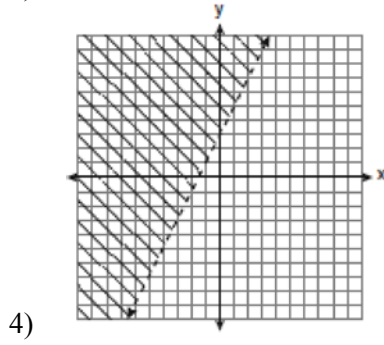
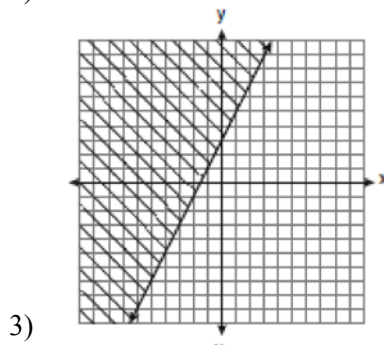
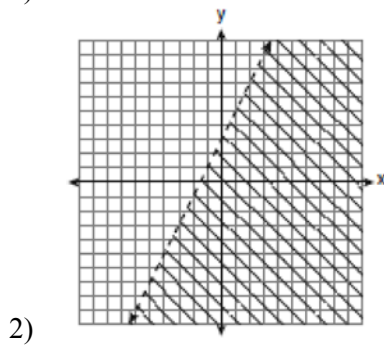
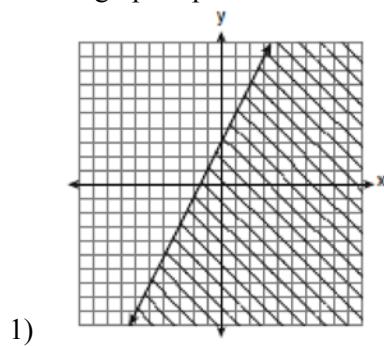


4)

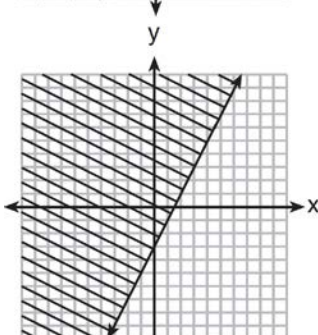
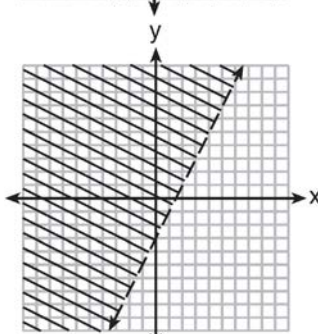
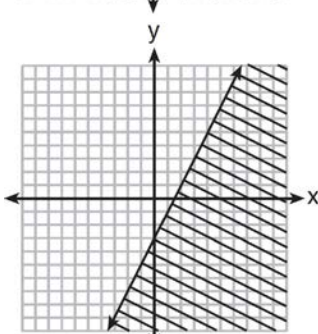
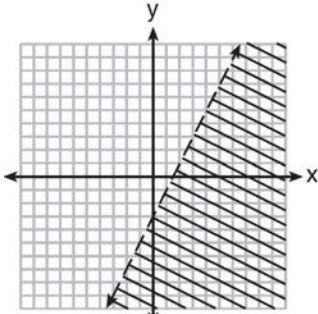
7 Which graph represents the inequality $y \geq x + 3$?



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



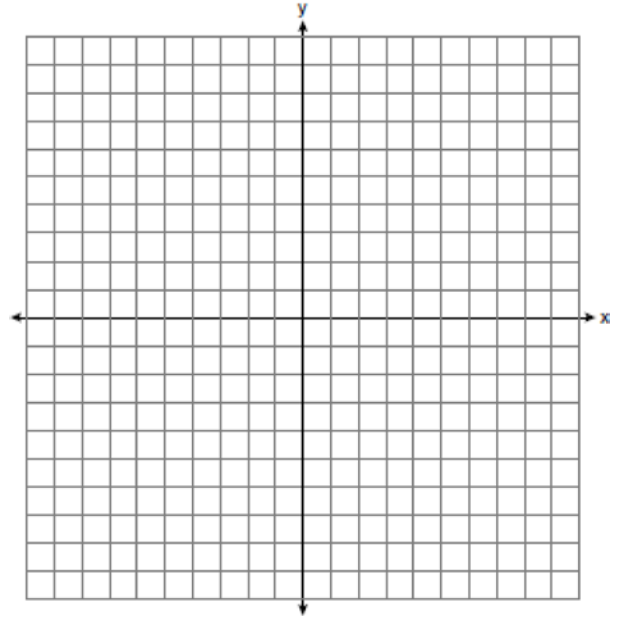
- 9 Which graph represents the solution of $2y + 6 > 4x$?



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

- 11 In the graph of $y \leq -x$, which quadrant is completely shaded?

- 12 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:

$$y \leq x - 1$$

REF: 061320ia

4 ANS:

$$y < -2x + 1$$

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

REF: fall0720ia

5 ANS:

$$y \leq \frac{4}{3}x - 4$$

REF: 061505ia

6 ANS: 1

REF: 011210ia

7 ANS: 2

REF: 081314ia

8 ANS: 1

REF: 060920ia

9 ANS: 3

$$y > 2x - 3$$

REF: 011422ia

10 ANS:

Quadrant IV

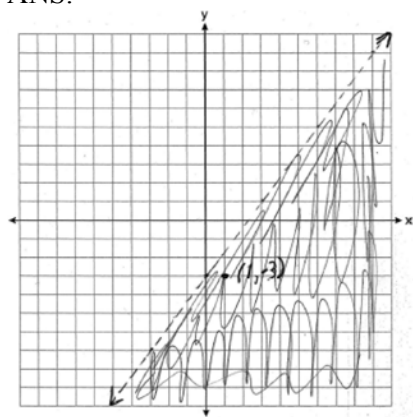
REF: 061028ia

11 ANS:

III

REF: 080220a

12 ANS:



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

$$4 + 9 > 9$$

REF: 011038ia