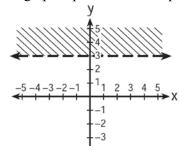
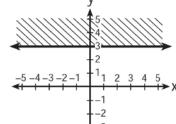
A.REI.D.12: Graphing Linear Inequalities 2

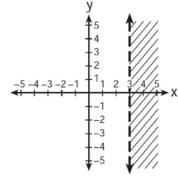
1 Which graph represents the inequality y > 3?



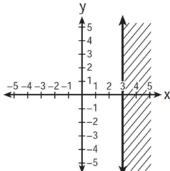






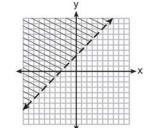


3)

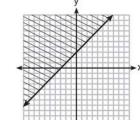


4)

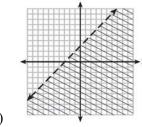
2 Which graph represents the inequality $y \ge x + 3$?



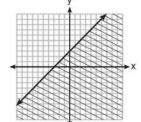




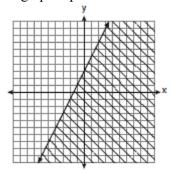
2)

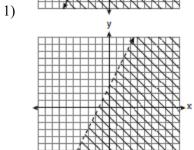


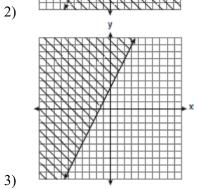
3)

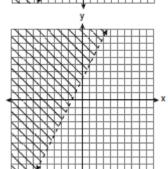


3 Which graph represents the solution of $3y - 9 \le 6x$?



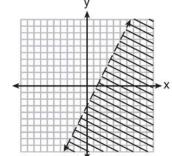


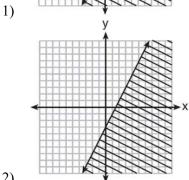


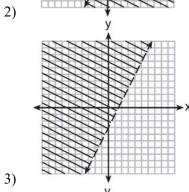


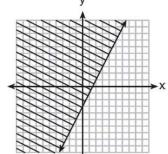
4)

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

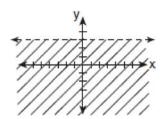






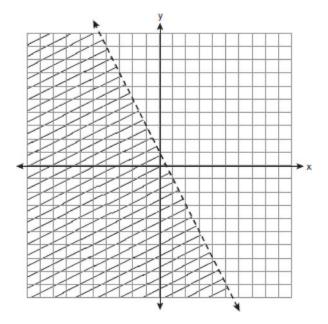


- 5 In the graph of $y \le -x$, which quadrant is completely shaded?
 - 1) I
 - 2) II
 - 3) III
 - 4) IV
- 6 Which quadrant will be completely shaded in the graph of the inequality $y \le 2x$?
 - 1) Quadrant I
 - 2) **Quadrant II**
 - 3) Quadrant III
 - 4) Quadrant IV
- 7 Which ordered pair is *not* in the solution set of y > 2x + 1?
 - 1) (1,4)
 - 2) (1,6)
 - 3) (3,8)
 - 4) (2,5)
- 8 Which inequality is represented by the accompanying graph?



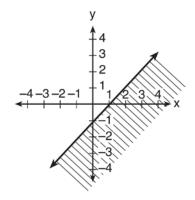
- 1) y < 3
- 2) y > 3
- 3) $y \le 3$
- 4) $y \ge 3$

9 Which inequality is represented by the graph below?

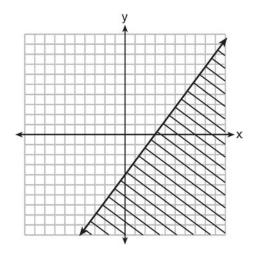


- 1) y < 2x + 1
- 2) y < -2x + 1
- 3) $y < \frac{1}{2}x + 1$ 4) $y < -\frac{1}{2}x + 1$

10 The diagram below shows the graph of which inequality?

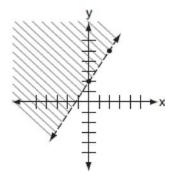


- 1) y > x 1
- 2) $y \ge x 1$
- 3) y < x 1
- $y \le x 1$
- 11 Which inequality is shown in the graph below?

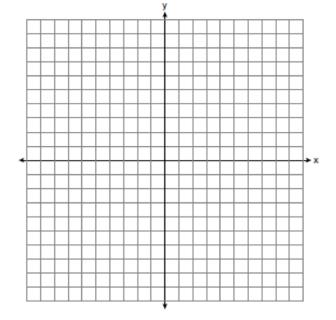


- 1) $y \le \frac{4}{3}x + 3$ 2) $y \ge \frac{4}{3}x + 3$ 3) $y \le \frac{4}{3}x 4$ 4) $y \ge \frac{4}{3}x 4$

12 Which inequality is shown in the accompanying diagram?



- 1) $y > \frac{3}{2}x + 2$
- $2) \quad y < \frac{3}{2}x + 2$
- 3) $y \ge \frac{3}{2}x + 2$
- 4) $y \le \frac{3}{2}x + 2$
- 13 Graph the solution set for the inequality 4x 3y > 9on the set of axes below. Determine if the point (1,-3) is in the solution set. Justify your answer.



A.REI.D.12: Graphing Linear Inequalities 2 Answer Section

1 ANS: 1 REF: 011210ia 2 ANS: 2 REF: 081314ia 3 ANS: 1 REF: 060920ia

4 ANS: 3 y > 2x - 3

REF: 011422ia

5 ANS: 3 REF: 080220a 6 ANS: 4 REF: 061028ia

7 ANS: 4

5 > 2(2) + 1 is not true.

REF: 080513a

8 ANS: 1 REF: 010629a

9 ANS: 2

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

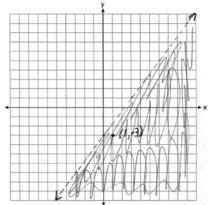
REF: fall0720ia

 10 ANS: 4
 REF: 061320ia

 11 ANS: 3
 REF: 061505ia

 12 ANS: 1
 REF: 010828a

13 ANS:



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

4+9 > 9

REF: 011038ia