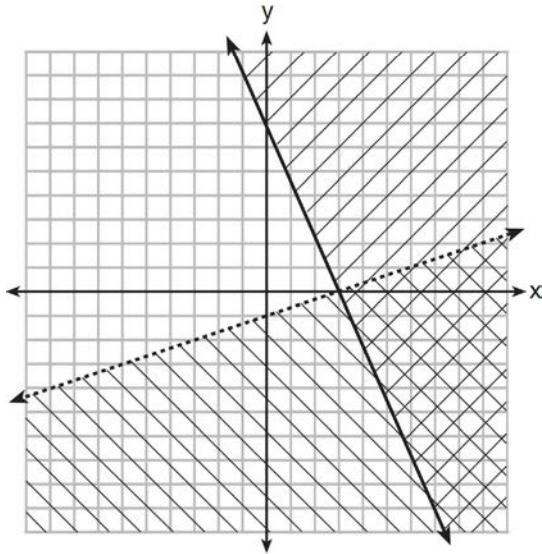


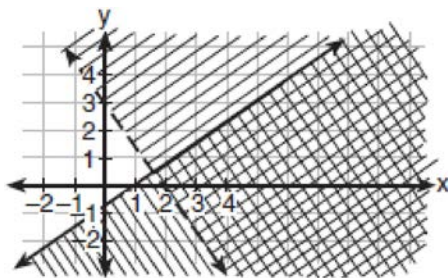
A.REI.D.12: Graphing Systems of Linear Inequalities 2

- 1 What is one point that lies in the solution set of the system of inequalities graphed below?



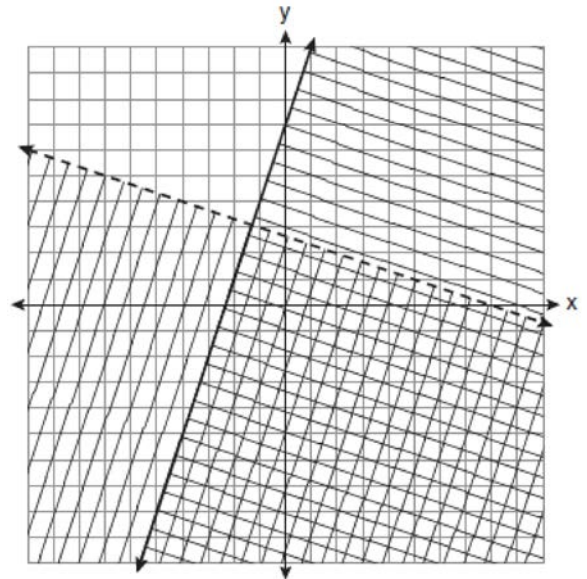
- 1) (7,0)
- 2) (3,0)
- 3) (0,7)
- 4) (-3,5)

- 2 Which coordinate point is in the solution set for the system of inequalities shown in the accompanying graph?



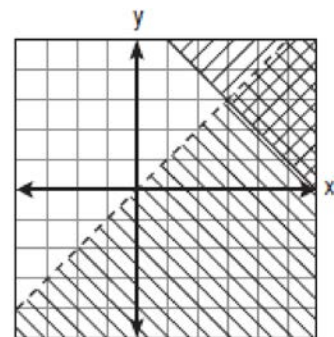
- 1) (3,1)
- 2) (2,2)
- 3) (1,-1)
- 4) (0,1)

- 3 Which ordered pair is in the solution set of the system of linear inequalities graphed below?



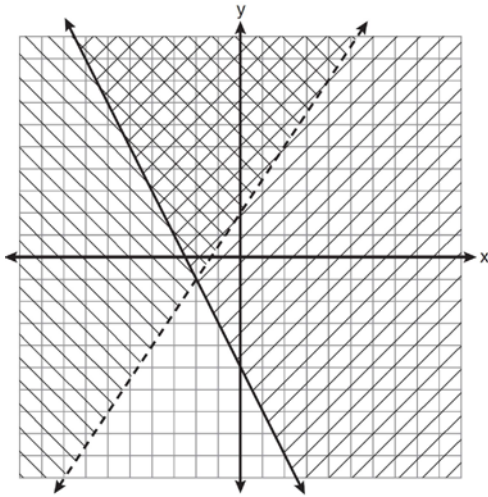
- 1) (1,-4)
- 2) (-5,7)
- 3) (5,3)
- 4) (-7,-2)

- 4 Which point is in the solution set of the system of inequalities shown on the accompanying graph?



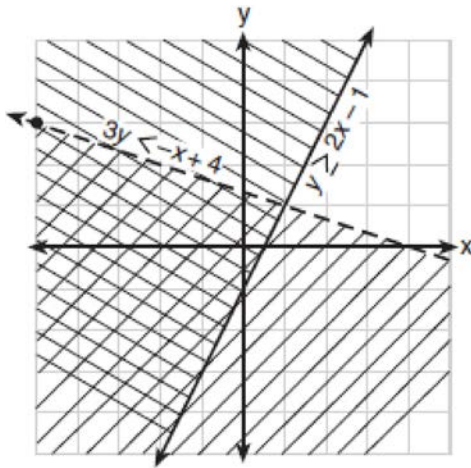
- 1) (0,0)
- 2) (3,3)
- 3) (5,2)
- 4) (2,3)

- 5 Which ordered pair is in the solution set of the system of inequalities shown in the graph below?



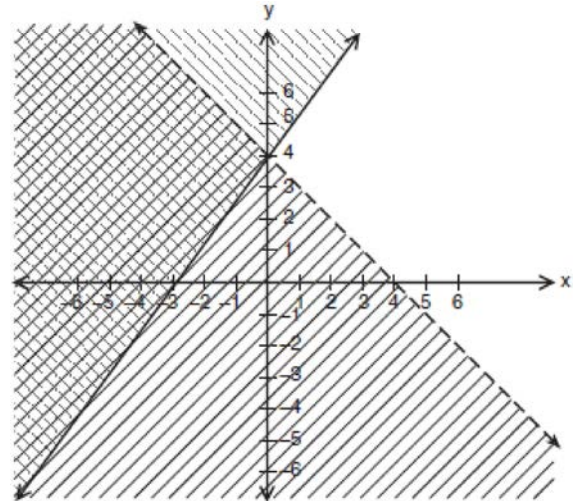
- 1) $(-2, -1)$
- 2) $(-2, 2)$
- 3) $(-2, -4)$
- 4) $(2, -2)$

- 6 Which point is a solution for the system of inequalities shown on the accompanying graph?



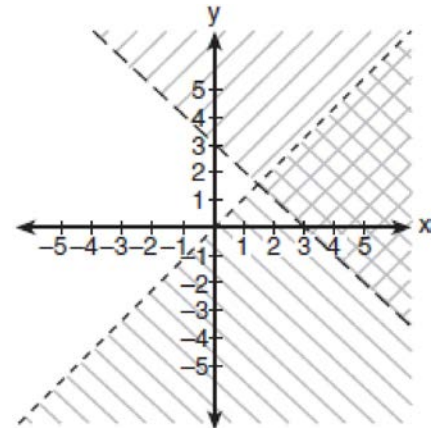
- 1) $(-4, -1)$
- 2) $(2, 3)$
- 3) $(1, 1)$
- 4) $(-2, 2)$

- 7 Which point is in the solution set of the system of inequalities shown in the accompanying graph?



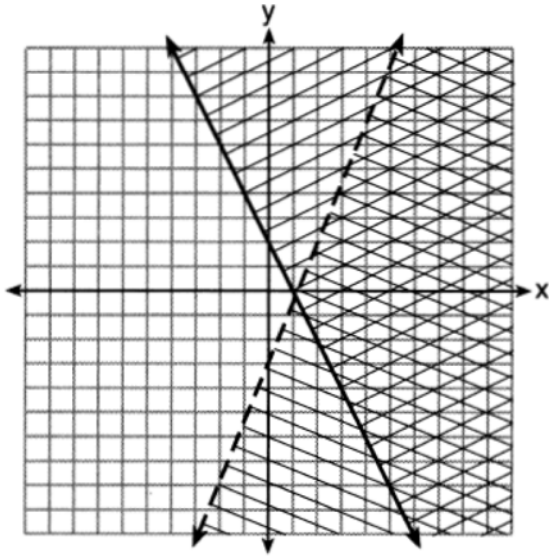
- 1) $(0, 4)$
- 2) $(2, 4)$
- 3) $(-4, 1)$
- 4) $(4, -1)$

- 8 Which ordered pair is in the solution set of the system of inequalities shown in the accompanying graph?



- 1) $(0, 0)$
- 2) $(0, 1)$
- 3) $(1, 5)$
- 4) $(3, 2)$

- 9 A system of inequalities is graphed on the set of axes below.



The coordinates of a point in the solution of this system of inequalities are

- 1) (4,7)
 - 2) (1,-4)
 - 3) (-2,-1)
 - 4) (3,1)
- 10 Which ordered pair is in the solution set of the following system of linear inequalities?

$$y < 2x + 2$$

$$y \geq -x - 1$$

- 1) (0,3)
 - 2) (2,0)
 - 3) (-1,0)
 - 4) (-1,-4)
- 11 Which point is a solution to the system below?

$$2y < -12x + 4$$

$$y < -6x + 4$$

- 1) $\left(1, \frac{1}{2}\right)$
- 2) (0,6)
- 3) $\left(-\frac{1}{2}, 5\right)$
- 4) (-3,2)

- 12 Which ordered pair is in the solution set of the following system of inequalities?

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

$$y \geq -x + 1$$

- 1) (-5,3)
 - 2) (0,4)
 - 3) (3,-5)
 - 4) (4,0)
- 13 Which ordered pair is in the solution set of the system of inequalities $y \leq 3x + 1$ and $x - y > 1$?
- 1) (-1,-2)
 - 2) (2,-1)
 - 3) (1,2)
 - 4) (-1,2)

- 14 Which coordinates represent a point in the solution set of the system of inequalities shown below?

$$y \leq \frac{1}{2}x + 13$$

$$4x + 2y > 3$$

- 1) (-4,1)
 - 2) (-2,2)
 - 3) (1,-4)
 - 4) (2,-2)
- 15 Which ordered pair is *not* in the solution set of $y > -\frac{1}{2}x + 5$ and $y \leq 3x - 2$?

- 1) (5,3)
- 2) (4,3)
- 3) (3,4)
- 4) (4,4)

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

Answer Section

- 1 ANS: 1 REF: 081407ai
 2 ANS: 1 REF: 060620a
 3 ANS: 1 REF: 061010ia
 4 ANS: 3 REF: 080822a
 5 ANS: 2 REF: 081127ia
 6 ANS: 1 REF: 010922a
 7 ANS: 3 REF: 010528a
 8 ANS: 4 REF: 080615a
 9 ANS: 4 REF: 061613ia
 10 ANS: 2 REF: 011023ia

11 ANS: 4
 $2(2) < -12(-3) + 4$ $4 < -6(-3) + 4$
 $4 < 40$ $4 < 22$

REF: 011716ai

- 12 ANS: 4 REF: 080825ia
 13 ANS: 2
 $-1 \leq 3(2) + 1$ $2 - (-1) > 1$
 $-1 \leq 7$ $3 > 1$

REF: 011323ia

- 14 ANS: 4 REF: 061222ia
 15 ANS: 2

$(4,3)$ is on the boundary of $y > -\frac{1}{2}x + 5$, so $(4,3)$ is not a solution of the system.

REF: fall1301ai