A.A.40: Systems of Linear Inequalities: Determine whether a given point is in the solution set of a system of linear inequalities

1 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) $(4, 0)$

2 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) $(-1, -4)$

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

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

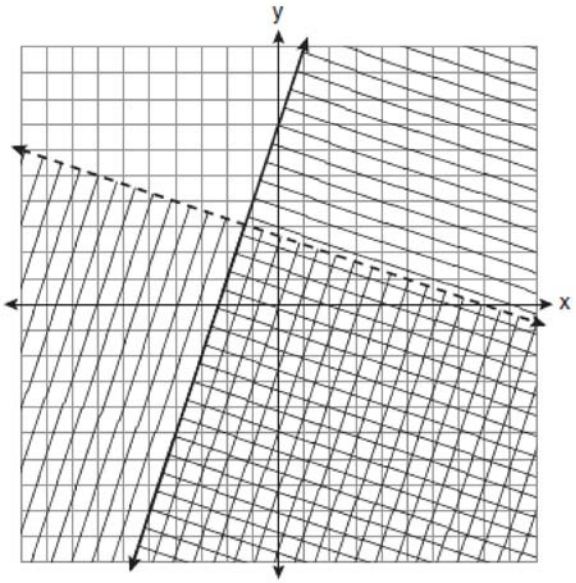
$$4x + 2y > 3$$

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

4 Which ordered pair is in the solution set of the system of inequalities $y \leq 3x + 1$ and $x - y > 1$?

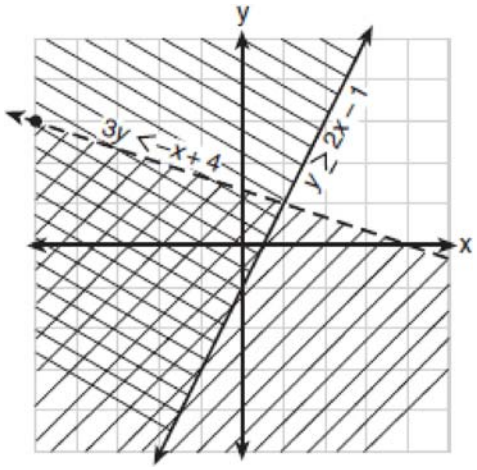
1) $(-1, -2)$
2) $(2, -1)$
3) $(1, 2)$
4) $(-1, 2)$

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



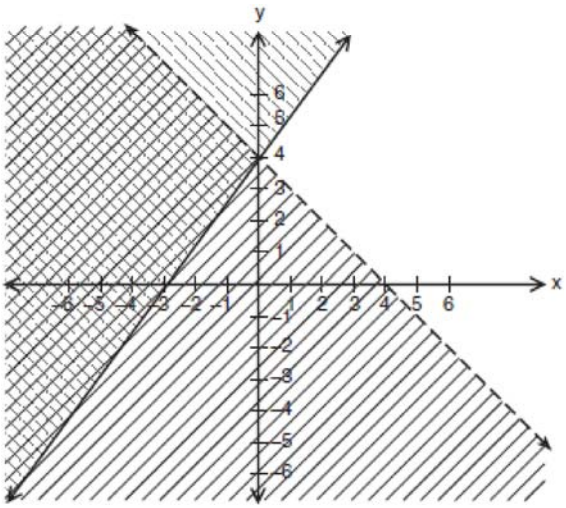
1) $(1, -4)$
2) $(-5, 7)$
3) $(5, 3)$
4) $(-7, -2)$

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



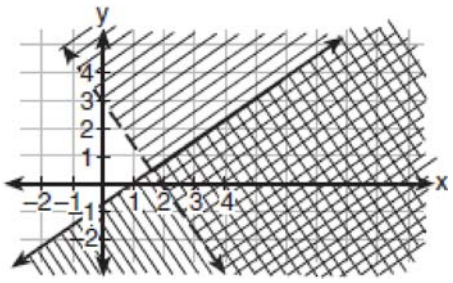
1) $(-4,-1)$
2) $(2,3)$
3) $(1,1)$
4) $(-2,2)$

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



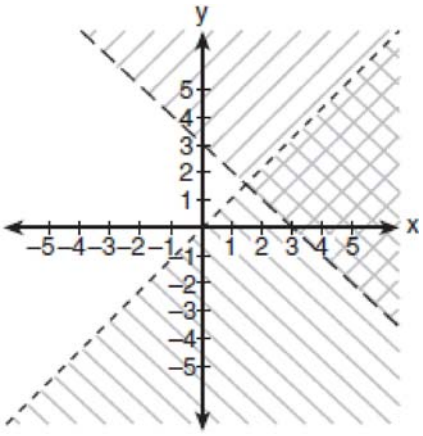
1) $(0,4)$
2) $(2,4)$
3) $(-4,1)$
4) $(4,-1)$

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



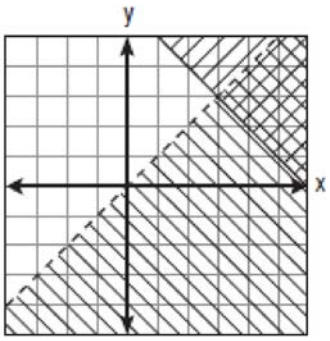
1) $(3,1)$
2) $(2,2)$
3) $(1,-1)$
4) $(0,1)$

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



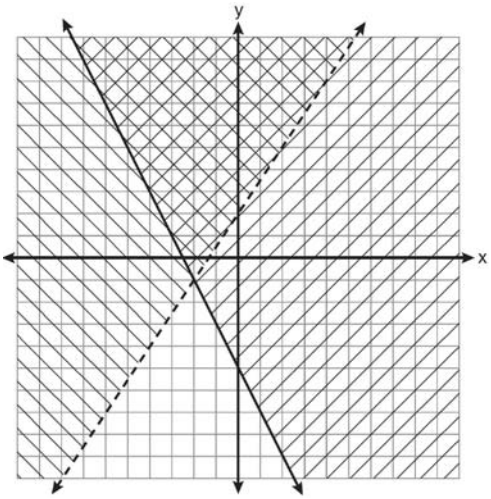
1) $(0, 0)$
2) $(0, 1)$
3) $(1, 5)$
4) $(3, 2)$

10 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) $(2, 3)$

11 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) $(2, -2)$

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Answer Section

1 ANS: 4 REF: 080825ia
2 ANS: 2 REF: 011023ia
3 ANS: 4 REF: 061222ia
4 ANS: 2

$-1 \le 3(2) + 1$. $2 - (-1) > 1$

$-1 \le 7$ $3 > 1$

REF: 011323ia
5 ANS: 1 REF: 061010ia
6 ANS: 1 REF: 010922a
7 ANS: 3 REF: 010528a
8 ANS: 1 REF: 060620a
9 ANS: 4 REF: 080615a
10 ANS: 3 REF: 080822a
11 ANS: 2 REF: 081127ia