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) $(4,0)$

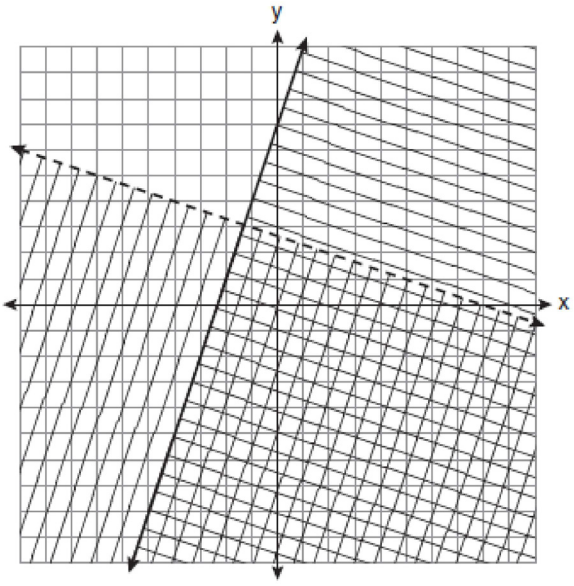
2 Which ordered pair is in the solution set of the following system of linear inequalities?

$$y < 2x + 2$$

$$y \geq -x - 1$$

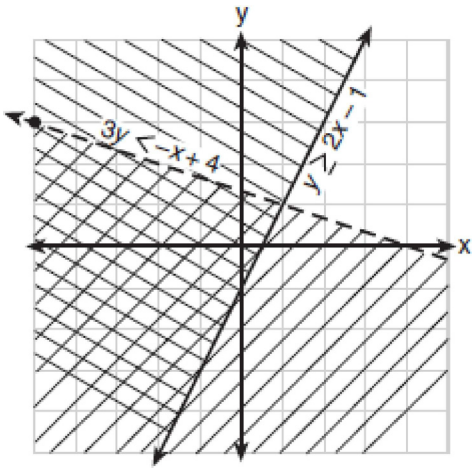
1) $(0,3)$
2) $(2,0)$
3) $(-1,0)$
4) $(-1,-4)$

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



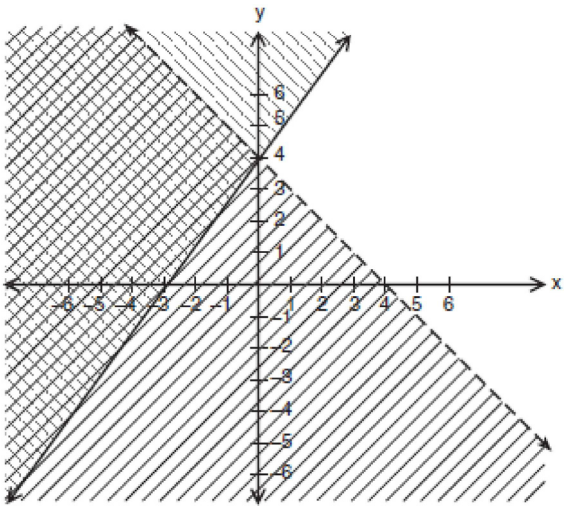
1) $(1,-4)$
2) $(-5,7)$
3) $(5,3)$
4) $(-7,-2)$

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



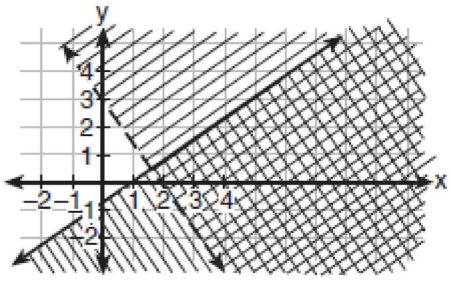
1) $(-4,-1)$
2) $(2,3)$
3) $(1,1)$
4) $(-2,2)$

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



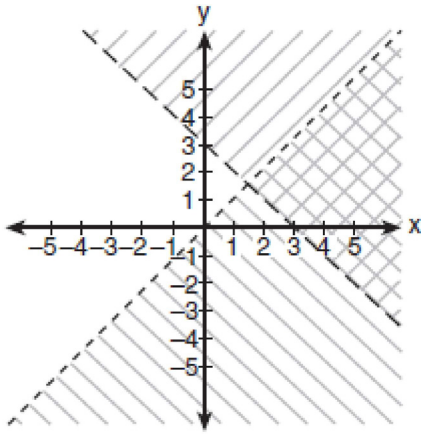
1) $(0,4)$
2) $(2,4)$
3) $(-4,1)$
4) $(4,-1)$

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



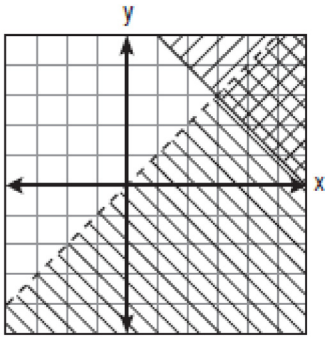
1) (3,1)
2) (2,2)
3) (1,–1)
4) (0,1)

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



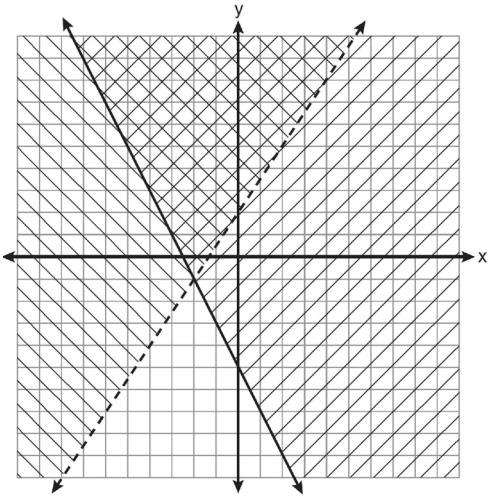
1) (0,0)
2) (0,1)
3) (1,5)
4) (3,2)

8 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)

9 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	PTS: 2	REF:	080825ia
2	ANS:	2	PTS: 2	REF:	011023ia
3	ANS:	1	PTS: 2	REF:	061010ia
4	ANS:	1	PTS: 2	REF:	010922a
5	ANS:	3	PTS: 2	REF:	010528a
6	ANS:	1	PTS: 2	REF:	060620a
7	ANS:	4	PTS: 2	REF:	080615a
8	ANS:	3	PTS: 2	REF:	080822a
9	ANS:	2	PTS: 2	REF:	081127ia