

Section 9-9: Graphing First-Degree Inequalities in Two Variables

1. fall0715ia, P.I. A.A.4

An electronics store sells DVD players and cordless telephones. The store makes a \$75 profit on the sale of each DVD player (d) and a \$30 profit on the sale of each cordless telephone (c). The store wants to make a profit of at least \$255.00 from its sales of DVD players and cordless phones. Which inequality describes this situation?

- [A] $75d + 30c \geq 255$ [B] $75d + 30c < 255$
[C] $75d + 30c > 255$ [D] $75d + 30c \leq 255$

2. 080220a, A.G.6

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

- [A] III [B] IV [C] I [D] II

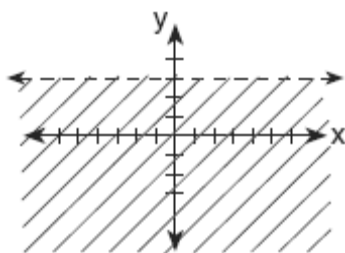
3. 080513a, P.I. A.A.21

Which ordered pair is not in the solution set of $y > 2x + 1$?

- [A] (1,4) [B] (2,5) [C] (1,6) [D] (3,8)

4. 010629a, P.I. A.G.6

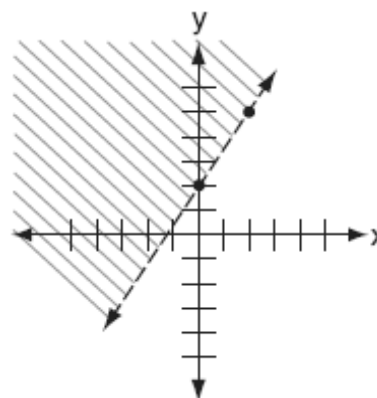
Which inequality is represented by the accompanying graph?



- [A] $y \geq 3$ [B] $y < 3$
[C] $y \leq 3$ [D] $y > 3$

5. 010828a, P.I. A.G.6

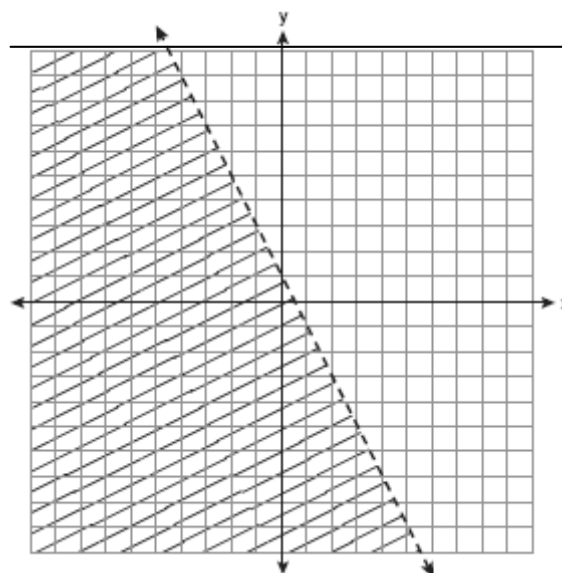
Which inequality is shown in the accompanying diagram?



- [A] $y \leq \frac{3}{2}x + 2$ [B] $y > \frac{3}{2}x + 2$
[C] $y \geq \frac{3}{2}x + 2$ [D] $y < \frac{3}{2}x + 2$

6. fall0720ia, P.I. A.G.6

Which inequality is represented by the graph below?



- [A] $y < -\frac{1}{2}x + 1$ [B] $y < 2x + 1$
[C] $y < -2x + 1$ [D] $y < \frac{1}{2}x + 1$

[1] A

[2] A

[3] B

[4] B

[5] B

[6] C