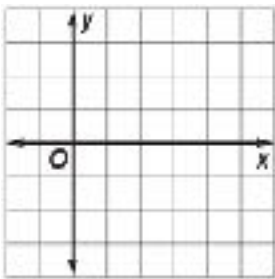# 5-6 Practice
## *Graphing Inequalities in Two Variables*

**Determine which ordered pairs are part of the solution set for each inequality.**
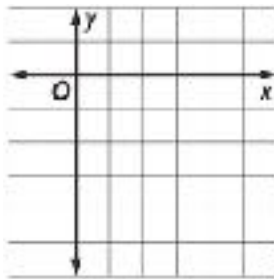
**1.** $3x + y \geq 6$, $\{(4, 3), (-2, 4), (-5, -3), (3, -3)\}$

**2.** $y \geq x + 3$, $\{(6, 3), (-3, 2), (3, -2), (4, 3)\}$

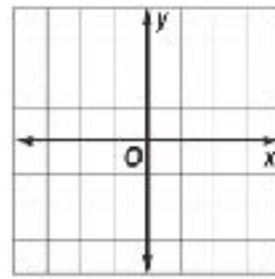**3.** $3x - 2y < 5$, $\{(4, -4), (3, 5), (5, 2), (-3, 4)\}$

**Graph each inequality.**

**4.** $2y - x < -4$
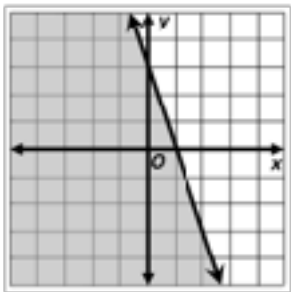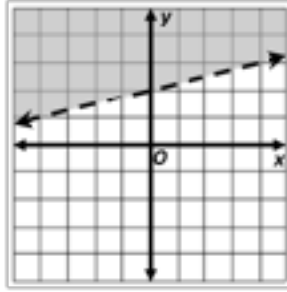


**5.** $2x - 2y \geq 8$



**6.** $3y > 2x - 3$



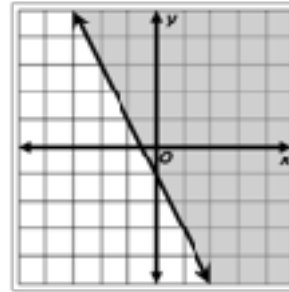**Write an inequality to represent each graph.**

**7.**



**8.**



**9.**



**10. MOVING** A moving van has an interior height of 7 feet (84 inches). You have boxes in 12 inch and 15 inch heights, and want to stack them as high as possible to fit. Write an inequality that represents this situation.

**11. BUDGETING** Satchi found a used bookstore that sells pre-owned DVDs and books. DVDs cost $9 each, and books cost $7 each. Satchi can spend no more than $35.

**a.** Write an inequality that represents this situation.

**b.** Does Satchi have enough money to buy 2 DVDs and 3 books?