6-9A Lesson Master

REPRESENTATIONS Objective 1

In 1–6, graph all points (x, y) that satisfy the inequality.

1. \( x \geq -3 \)
2. \( y < 7 \)
3. \( y > 3x - 5 \)
4. \( y \leq 2 + \frac{1}{2}x \)
5. \( 3x + 4y < 10 \)
6. \( 9x - 9y \geq 63 \)

7. A box of herbal tea contains 20 bags. Each cup requires 1 tea bag and each pitcher requires 4 tea bags.
   
   a. Write an inequality that gives the maximum number of cups \( c \) and pitchers \( p \) that can be brewed from 1 box of tea bags.

   
   b. Give two possible combinations of \( c \) and \( p \).