

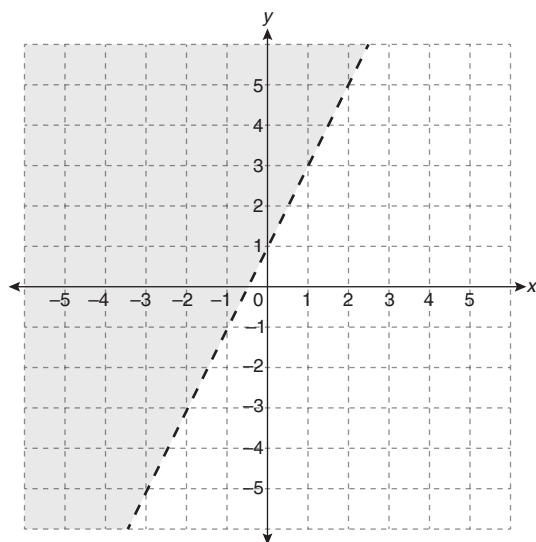
Lesson 7.3: Linear Inequalities in Two Variables**Explore Your Understanding Assignment**

This assignment includes multiple choice and short answer questions. For multiple choice questions, select the best answer. Each is worth 1 mark. Marks assigned to short answer questions are indicated for each question. Be sure to show all necessary work.

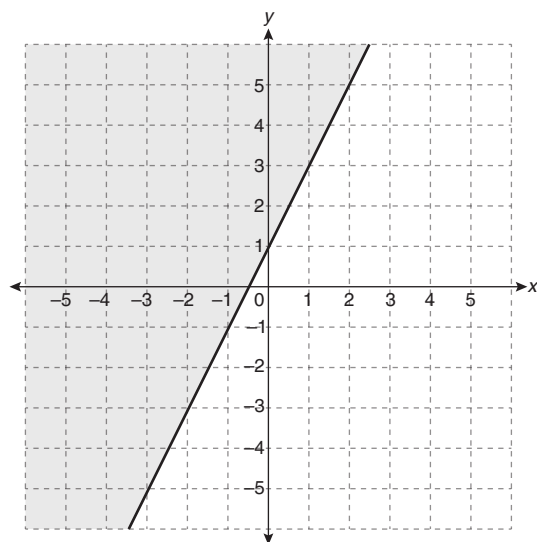
- ① _____ 1. The ordered pair that **does not** belong to the solution set of the inequality $6x + 3y \leq 10$ is
- A. (1, 1)
 - B. (2, 3)
 - C. (1, -4)
 - D. (-3, -3)

①_____ 2. The graph that matches the inequality $2x + 1 > y$ is

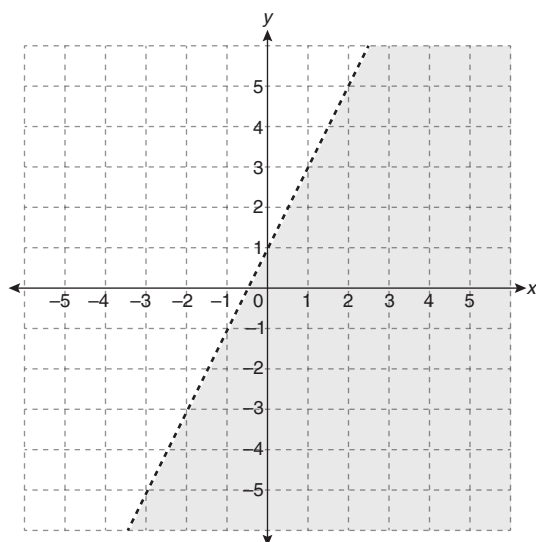
A.



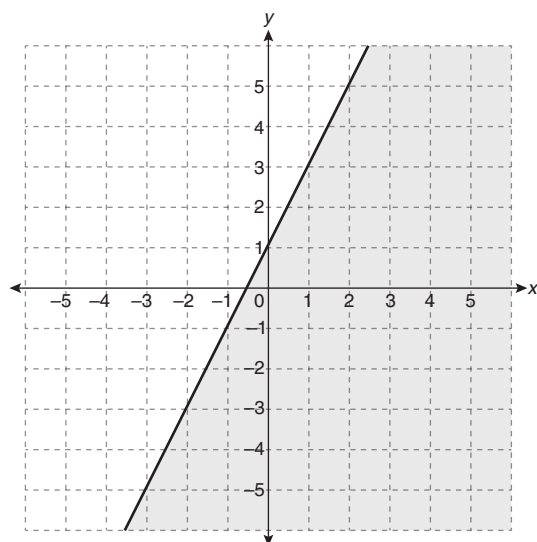
B.



C.



D.



- ① _____ 3. Consider the inequality $y \geq ax + 6$. The point (2, 1) is in the solution region when

- A. $a > -\frac{5}{2}$
- B. $a < -\frac{5}{2}$
- C. $a \geq -\frac{5}{2}$
- D. $a \leq -\frac{5}{2}$

- ② 4. Gary is a fitness trainer that makes 30 and 45 minute appointments with clients. Gary's contract allows him to make up to 30 hours of appointments in a week. State the inequality that represents all the possible combinations of appointments that Gary can make in a week. Graph the inequality.



© Thinkstock

You have completed *Lesson 7.3 Explore Your Understanding Assignment*. Please review all work in *Workbook 7A* to ensure it is your best work. Submit *Workbook 7A* for marking at this time and proceed to *Lesson 7.4* in the *Module*.

