

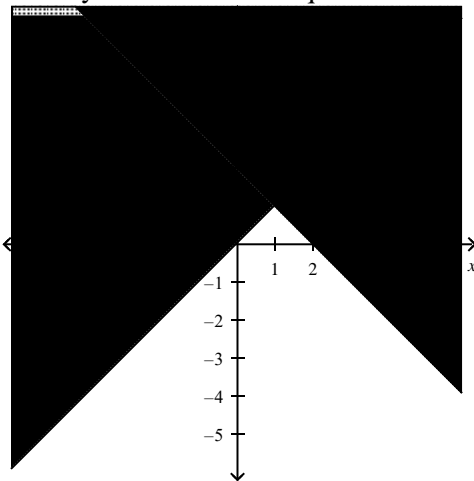
Math 110 Quiz #2 Review: Sec 5.2 & 5.3

Name: _____

Multiple Choice: *Identify the choice that best completes the statement or answers the question.*

- _____ 1. What is the boundary line for the linear inequality $2x + 2y < 16$?
- a. $y = 8 - x$
 - b. $x = 8 - y$
 - c. $y = 16 - x$
 - d. $y = 4 - 2x$
- _____ 2. Which test point is in the solution set for the linear inequality $\{(x, y) \mid 7x + 5y \leq 0, x \in \mathbb{I}, y \in \mathbb{I}\}$?
- a. $(2, 2)$
 - b. $(-1, -1)$
 - c. $(1, 1)$
 - d. $(2, -2)$
- _____ 3. How would you graph the solution set for the linear inequality $4y - 2x < 20$?
- a. Draw a dashed boundary line $y = \frac{1}{2}x + 5$, then shade above the line.
 - b. Draw a dashed boundary line $y = \frac{1}{2}x + 5$, then shade below the line.
 - c. Draw a solid boundary line $y = \frac{1}{2}x + 5$, then shade below the line.
 - d. Draw a solid boundary line $y = \frac{1}{2}x + 5$, then shade above the line.

- _____ 4. What system of linear inequalities is shown here?



- a. $x - y \geq -2$
 $y \geq x$
- b. $x - y \geq 2$
 $y \geq x$
- c. $x + y \geq 2$
 $y \geq x$
- d. $-x + y \geq -2$
 $y \geq x$

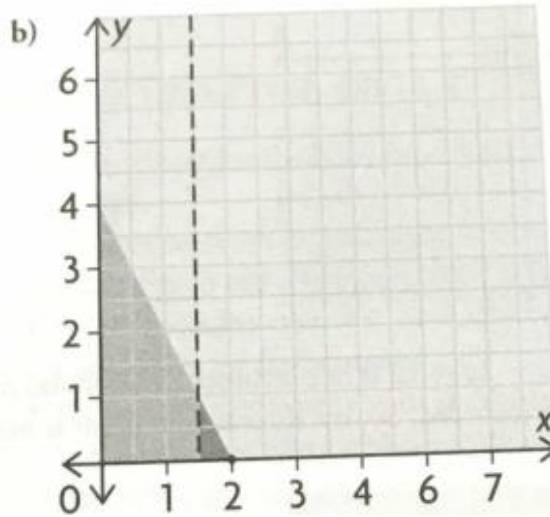
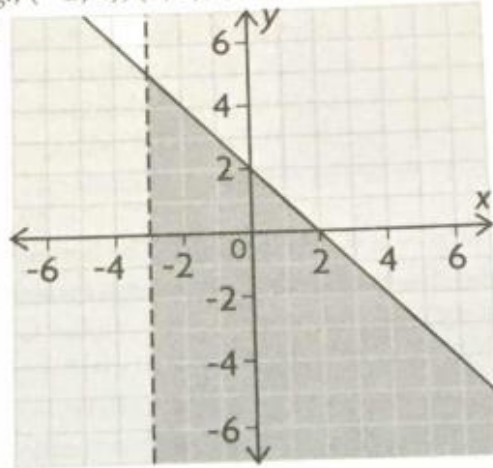
- _____ 5. Identify the point of intersection for the following system of linear inequalities.
 $\{10y - 5x \leq 0, 4x + 2y > 10, x \in \mathbb{I}, y \in \mathbb{I}\}$
- a. $(2, -1)$
 - b. $(-2, -1)$
 - c. $(2, 1)$
 - d. $(-2, 1)$

Quiz Review: Sec 5.2 & 5.3
Answer Section

MULTIPLE CHOICE

1. ANS: A
2. ANS: B
3. ANS: B
4. ANS: C
5. ANS: C

1. a) i) b) ii)
2. e.g., $(-2, 4)$, $(0, 2)$, $(1, 4)$
3. a)



4. shaded and stippled
- 5.

