Lesson 6.6 Practice: Linear Inequalities and Systems of Inequalities

School Launch · Algebra I · Unit 6: Systems of Equations and Inequalities · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Which of the points $(-5, -2)$, $(2, 5)$ are solutions of $y \geq 2x + 4$? Is the boundary line solid or dashed? EASY

2. Which of the points $(-5, -4)$, $(-4, -5)$ are solutions of $y \geq 1x + 1$? Is the boundary line solid or dashed? EASY

3. Which of the points $(2, -1)$, $(-2, -3)$ are solutions of $y \geq 2x - 4$? Is the boundary line solid or dashed? EASY

4. Which of the points $(1, 2)$, $(5, 4)$, $(-3, -5)$ are solutions of $y \geq -4x + 3$? Is the boundary line solid or dashed? MEDIUM

5. Which of the points $(-2, -5)$, $(-1, 1)$, $(5, 4)$ are solutions of $y < -3x + 0$? Is the boundary line solid or dashed? MEDIUM

6. Which of the points $(2, 5)$, $(-2, 5)$, $(-1, -3)$ are solutions of $y < 2x - 3$? Is the boundary line solid or dashed? MEDIUM

7. Which of the points $(3, 4)$, $(-5, -3)$, $(-2, 4)$ are solutions of $y \leq -2x + 4$? Is the boundary line solid or dashed? MEDIUM

8. Which of the points $(5, 2)$, $(1, -5)$, $(4, 2)$, $(5, -2)$ are solutions of $y > -3x + 1$? Is the boundary line solid or dashed? HARD

9. Which of the points $(2, 4)$, $(5, 5)$, $(5, -2)$, $(1, 1)$ are solutions of $y < -2x + 1$? Is the boundary line solid or dashed? HARD

10. Which of the points $(-5, 1)$, $(-2, 3)$, $(-4, 1)$, $(2, 2)$ are solutions of $y < 3x + 4$? Is the boundary line solid or dashed? HARD