

Algebra 1 Blizzard Bag #2

Name _____ Period _____ Date _____

Answer the following questions using knowledge of graphing, slope, and slope-intercept form.

(Chapter 4.1-4.5)

1. Describe the location of the point $A(-7, -3)$ in a coordinate plane.

2. Is the ordered pair $\left(-3, \frac{1}{2}\right)$ a solution of $2x - 4y = -4$?

3. You are helping to plan an awards banquet for your school, and you need to rent tables to seat 264 people. Tables come in two sizes. Small tables seat 4 people and large tables seat 6 people. This situation can be modeled by the equation $4x + 6y = 264$ where x is the number of small tables and y is the number of large tables. Find the x - and y -intercepts of the graph of the equation.

4. A ramp has a rise of 14 feet and a run of 70 feet. Find its slope.

5. Find the slope of the line that passes through the points $(3, 1)$ and $(2, 1)$.
6. Rewrite the equation in slope-intercept form. $7x + 2y - 6 = 0$
7. Find the slope for each line: line a through $(-1, -1)$ and $(2, 0)$; line b through $(0, -3)$ and $(5, -1)$; line c through $(-2, -5)$ and $(4, -3)$.
8. Which lines are parallel in Problem 7?