

Algebra 1 Blizzard Bag #3

Name _____ Period _____ Date _____

Answer the following questions using knowledge of equations, graphing, and slope-intercept form. (Chapter 5.1-5.6)

1. Write an equation of the line with a slope of $\frac{11}{12}$ and a y-intercept of 15.
2. Write an equation of the line that passes through the points $(-1,4)$ and $(0,-2)$.
3. Write an equation of the line that passes through the point $(2,-1)$ and has a slope of -4 .
4. Write an equation of the line that passes through the points $(-4,3)$ and $(4,-3)$.

5. Use the slopes of the lines: $y = 3x + 6$ and $y = 3x - 5$ to determine if the lines are parallel, perpendicular, or neither.
6. Use the slopes of the lines: $y = \frac{2}{3}x + 2$ and $y = -\frac{3}{2}x + 5$ to determine if the lines are parallel, perpendicular, or neither.
7. Describe a scatter plot of data with positive correlation.
8. The initial fee to have a website set up using a server is \$104.00. It costs \$35.00 per month to maintain the website. Write an equation that gives the total cost, C , of setting up and maintaining a website as a function of the number of months, m , it is maintained.