

# UNIT 1 TEST REVIEW TOPICS

1. Slope intercept form (Review everything from quiz)
  - a. Define variables in slope intercept form
  - b. Analyze graphs of linear equations
  - c. Graph in slope intercept form
  - d. Find slope of a line given two points
  - e. Recognize slope and y intercept in given equation
  - f. Solve equations and put in slope intercept form
    - i. Ex:  $2x - 3y = 5 \Rightarrow y = \frac{2}{3}x + \frac{5}{3}$
  - g. Analyze tables (be able to graph, find slope and y int from tables)
  - h. Explain what slope and y-intercept tell you about given relationships
  - i. Write an equation given slope and y intercept

## 2. Direct Vs Inverse Variation

Differentiate between direct and inverse variation given a table, graph or word problem

- a. Write an equation to represent a direct or inverse relationship given a table, graph or word problem.
  - b. Determine the constant
  - c. Estimate the correlation
3. Data Analysis
- a. Be able to match correlation coefficients with graphs
  - b. Be able to calculate mean, median, mode, variance and standard deviation of a data set.