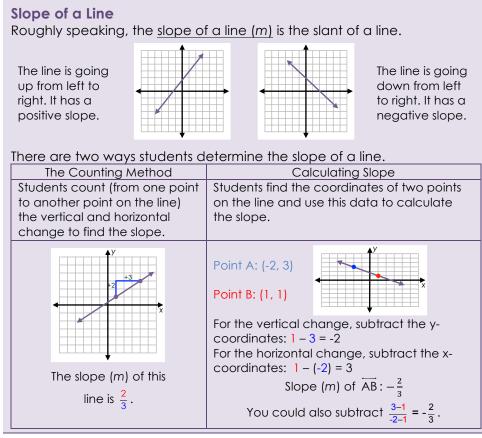
Packet 2: Slope and Slope-Intercept Form of a Line

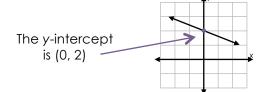
Dear Parents/Guardians,

Functions: Packet 2 formally introduces the slope formula and the slope-intercept form of a linear equation. In Lesson 1, students use counting and then the formula to find the slope of a line. Lesson 2 explores the meaning of the *y*-intercept. In Lesson 3, slope-intercept form is formalized.



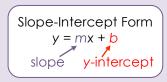
The y-Intercept

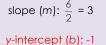
The y-intercept is the value of y where the graph intersects the y-axis. It is located at the point (0, y).



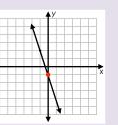
Slope-Intercept Form

Students represent the graph of a line as an equation in slope-intercept form.





Equation of the line: y = 3x - 1





FUNCTIONS PACKET 2

By the end of the packet, your student should know...

- What the slope of a line represents and how to find the slope of a line Lessons 2.1, 2.2 and 2.3
- How to identify and determine the y-intercept in a table of numbers, a graph, and an equation Lesson 2.2
- How to write the equation of a line in slope-intercept form Lessons 2.2 and 2.3

Additional Resources

- For definitions and additional notes please refer to section 2.5.
- Tutorial for counting method to find slope: <u>https://youtu.be/R948Tsyq4vA</u>
- Tutorial for slope formula: <u>http://youtu.be/B6IP_RzXSZs</u>