

Module 6 Lesson 2

Math Lab: Exploring Lines

1. A line passes through the points $(-10, 10)$ and $(5, -8)$. Determine the line's properties as listed in the table. Come up with ways of doing so without graphing the line, as well as by graphing only. Record your strategies in the table.

Property	Without Using a Graph	Using a Graph Only
slope		
y-intercept		
x-intercept		
equation in slope-intercept form		
domain		
range		

Respond to the following questions based on the completed table.

2. Which properties are more easily determined using a graphical approach?
3. Under what conditions would it be more difficult to use a graphical approach to determine the properties of a line?
4. What are the benefits of using an algebraic approach to determine the properties of a line?