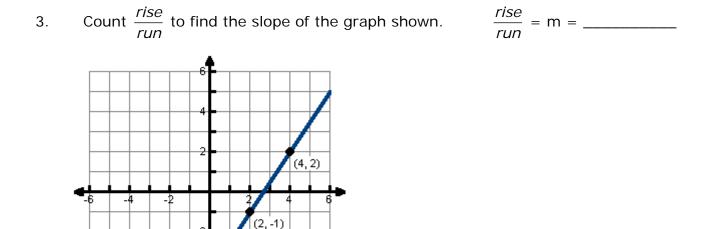
MATH 102 – Guided Reading Questions for Section 2.4

(0, -4)

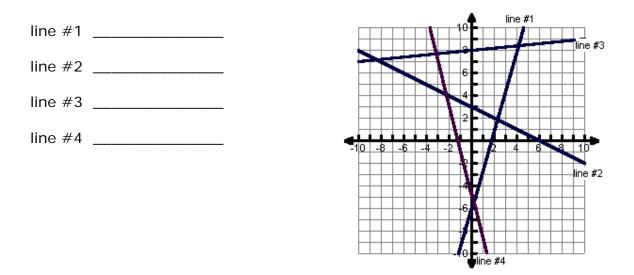
- 1. The slope of a line can be though of as the ______ of the line.
- We measure slope of a line as a ratio of ______ to _____. Slope is usually denoted by the letter _____.



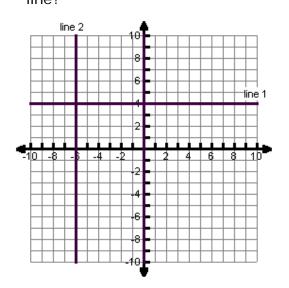
- 4. If we know the coordinates of two points on a line, (x_1, y_1) and (x_2, y_2) , we may compute the slope using the equation m =_____.
- 5. Find the slope of the line containing the points (3, 2) and (5, -1) using the slope formula from problem 4. Show all work.
- 6. Look at the "Discover the Concept" box on page 153. Follow the directions: enter Y1 = x, Y2 = 3x and Y3 = 0.5x in the Y= screen on your calculator. Use a standard window.
 - a. Which line has the greater slope: Y1, Y2 or Y3?

Problem 6, continued

- b. How would you change the equations so that the graphs slant downward instead of upward, left to right? (This is question (b) in the "Discover the Concept" box.)
- c. Identify the slope as being positive or negative for each line shown below.



7. Choose any two points on the line labeled line 1 and compute the slope using the slope formula, $\frac{\gamma_z - \gamma_1}{x_2 - x_1}$. What can you conclude about the slope of **any** horizontal line?



Now choose any two points on the line labeled line 2 and compute the slope using the slope formula. What can you conclude about the slope of *any* vertical line?