Consider the line that goes through the two points (1, 3) and (4, 9).

a. Graph these points and the line through them on the attached graph paper.

b. What is the slope of this line? Write out the steps of your calculation clearly. Be prepared to explain to your group how one calculates the slope of a line.

c. Write out the equation of this line. Show clearly how you determined the equation.

d. What is the x-intercept and y-intercept of this line. Again, show your calculations clearly.
e. Does the point \((-1, -2)\) lie on this line? Why or why not?

f. When \(x = 3\), what is the y value so that \((x, y)\) lies on the line?

g. How would you rate your knowledge of issues related to lines? Circle One.

Mastery (M) Tentative (T) Unsure (U)