Concept: Slope of a Line

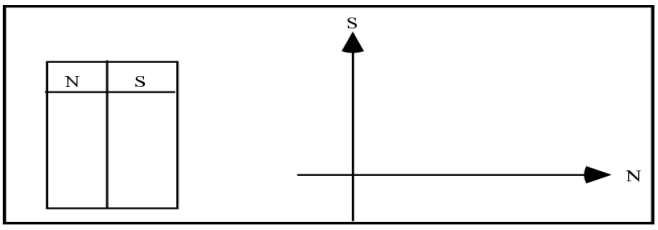
Name:

PART A. Recall Component: (Off Computer Activity)

In *Understanding Graphing, Topic 6: Linear Relations,* we worked through 4 examples.
One of the examples was .. The Elastic Example

We let N be the # of washers (we also included parts of washers)
Let S be the length of the stretch of the elastic.
We calculated the ordered pairs. We noticed a pattern in these ordered pairs.
From the pattern we were able to write an equation which was ... _____.

We should graph _____ points so that we can "see" a _____.



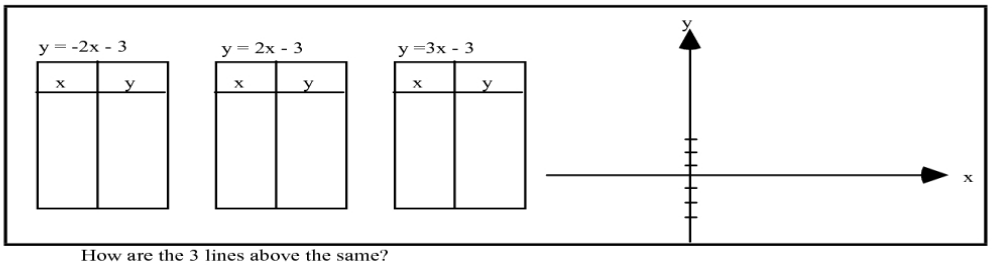
Because we can attach _____ of washers,
we can _____ the points with a _____ line or a _____ curve.

PART B. Patterns in Special Relations (Off Computer Activity)

Objective: Investigate the roles of $\#_1$ and $\#_2$ in relations of the form .. $\mathbf{y = \#_1 x + \#_2}$

Investigation 1: Investigate the role of $\#_1$ by keeping ___ constant and varying ___

Graph each of the following on the same axis below:
Clearly identify each line by using different colored pencils or pens.



How are the 3 lines above the same?
How are the 3 lines different?

What seems to be the role of $\#_1$ in an equation of the form .. $y = \#_1 x + \#_2$??

Investigation 2: Investigate the role of $\#_2$ by keeping ___ constant and varying ___