## Slopes of Perpendicular Lines With TI-Nspire ${ }^{\mathrm{TM}}$

Objective: To determine a relationship between the slopes of perpendicular lines.


| 3) Hit(nenm, then choose LINE from the POINTS \& LINE menu. |  |
| :---: | :---: |
| 4) Construct a line on the screen. Next, under nemu select POINT ON from the POINTS \& LINE menu |  |
| 5) Place the point somewhere on the line constructed in step 4. |  |

6) Construct a perpendicular line by
selecting meny then CONSTRUCTION
and PERPENDICULAR.
7) Calculate the slope of each line by
selecting meny then MEASUREMENT
and SLOPE. Next, move the hand over
each line and select (2) to select the line
and again to place the value. Repeat for
the second line.

8) In order to create a visual
representation of the slope values, we
will create a scatter plot to demonstrate
the relationship.
Select menu then GRAPH TYPE and
SCATTER PLOT
9) Select ment then GRAPH TYPE and
FUNCTION
