

Coordinate Graphing

5603

Introduction

In this activity, students develop an initial conceptual understanding of how to plot a set of points using a coordinate grid and create lists to represent the ordered pairs for graphing.

Grades 9-12

NCTM Algebra Standards

- Understand patterns, relations, and functions
- Understand relations and functions, and select, convert flexibly among, and use various representations for them

Files/Materials Needed

Points.act

1

- Have students draw a simple drawing on graph paper using a coordinate grid. When they are finished, have them label different points with the coordinates.
- Tell students to enter their x -coordinates into L1 on the calculator and their corresponding y -coordinates into L2.

L1	L2	L3	3
1	1		
5	5		
5	9		
1	1		

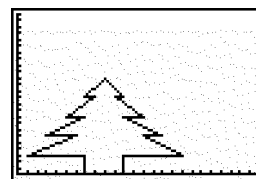
- Have them set up Plot 1 to draw a line plot.

Plot1	Plot2	Plot3
On	Off	Off
Type: [Line]		
Xlist: L1		
Ylist: L2		
Mark: [Solid Square]		

- Tell students to adjust the window settings as needed to fit their data.

WINDOW
Xmin=0
Xmax=25
Xscl=1
Ymin=0
Ymax=25
Yscl=1
Xres=1

- Have students graph their plots by pressing **GRAPH**.



2

- Launch TI-Navigator™ on the computer and start the session.
- Have each student log into NavNet on their calculator.

3

- Use **Screen Capture** to view all of the pictures.
- Select an individual picture and see which student created it. That student will submit their list to you in the next step.

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4

- a. Load the activity settings file ***Points.act***.
- b. Select the **List-Graph** tab and start the activity.
- c. Instruct the selected student from step 3b to submit their lists.
- d. Stop the activity. Reconfigure the activity settings so students start with **Existing activity lists**.
- e. Start the activity to send the data to all the student calculators.

5

Have students log out of NavNet and repeat steps 1c through 1e for the new data they just received.

6

Repeat for different students in the class.