

Lesson Three: Displaying Data and Describing Trends

Goals: To create and interpret scatterplots, and to identify and describe trends and relationships in data.

Creating a Scatterplot

Your teacher will explain the steps for entering data into the calculator and displaying the points. Use the space provided near each example to make notes that will help you remember the steps involved.

NOTE: Press **2nd** **Y=** **ENTER** **ON** **ENTER** to turn on the stat plot.

Example 1

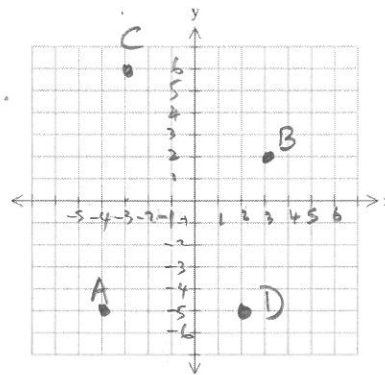
a) Enter the following coordinates into your calculator and inspect the graph.

$A(-4, -5)$ $B(3, 2)$ $C(-3, 6)$ $D(2, -5)$

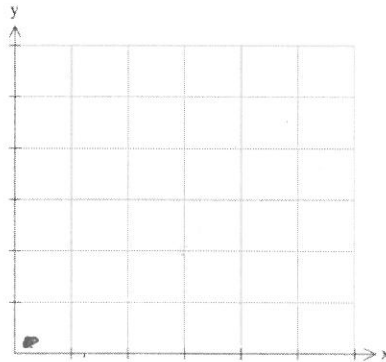
Plot the points on the grid at right.

To enter points on graph using graphing calculator.

- (1) **STAT** **EDIT** **L1, L2**
- (2) Under L_1 , enter x -coordinates:
-4, 3, -3, 2
- (3) Under L_2 , enter y -coordinates:
-5, 2, 6, -5.
- (4) Press **GRAPH**



b) Adjust your window settings to show only the first quadrant. Record what you see on the grid provided below.



c) Adjust your window settings to show a maximum of 100 on both the x - and y - axes. How does changing the window settings affect the graph? Is the data affected?