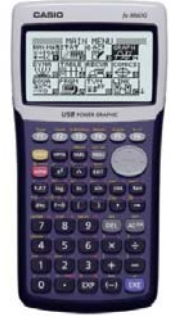
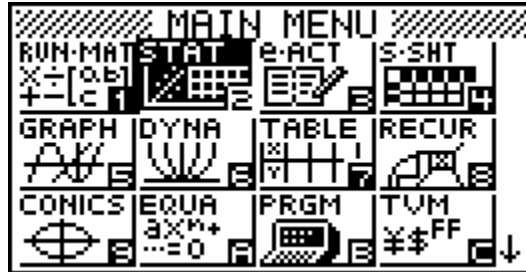


CASIO eLearning Activities



Determining the slope of a line, with two identified points, using the

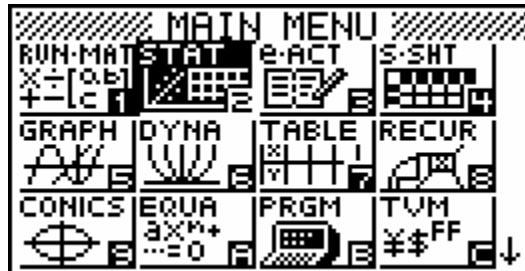


STAT mode of the Graphing Calculator

EXAMPLE: (3,7) (4,5)

These points will be used to determine the **slope** of the line.

In the Main Menu Select **STAT** by pressing



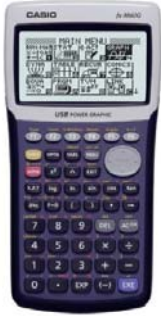
Enter the ordered pairs using the key strokes below.

3 **EXE** **4** **EXE** **▶** **7** **EXE** **5** **EXE**

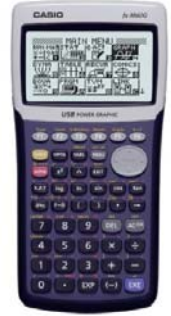
On your screen you should see

| | List 1 | List 2 | List 3 | List 4 |
|-----|--------|--------|--------|--------|
| SUB | | | | |
| 1 | 3 | 7 | | |
| 2 | 4 | 5 | | |
| 3 | | | | |
| 4 | | | | |

GRPH CALC TEST INTR DIST ◀



CASIO eLearning Activities



Type **F1** **F6** so you can insure the graph is producing the correct output. Be sure the calculator has the following settings.

```
StatGraph1
Graph Type  :Scatter
XList       :List1
YList       :List2
Frequency   :1
Mark Type   :□
|GP1|GP2|GP3
```

Now type the following commands to show the values for the line of best fit.

EXIT **F1** **F1** **F2**

Your screen should show the following:

```
LinearReg
a =-2
b =13
r =-1
r²=1
MSe=
y=ax+b
|COPY|DRAW
```

This screen depicts the equation of the line for the two points used in this example, (3,7) and (4,5).

The Equation is $y = mx + b$ or as shown here $y = ax + b$. Thus a is your slope.

So the slope of the line that goes through (3,7) and (4,5) is -2.