

## Function Diagrams: Electronic Tools

TI-82 and TI83

### Installation

You will need to install three programs into your calculator: FD, FDF, and FDSETUP.

### Using the Programs

Use FDSETUP first, to set everything up. You will get the following options:

1: DEFAULT

This sets all the default values (zero in the middle, scale 1, gap 3, width 12)

2: ZERO

Do you want the zero at the top, middle, or bottom of the screen?

3: SCALE

What the distance between consecutive ticks is worth.

4: GAP

Distance in pixels between consecutive ticks

5: WIDTH

Distance in pixels between the x- and y-axis

6: READY

You must press this to confirm all the values you entered for items 2-5.

After pressing 1 or 6:

If you want to see the function diagram for Y1, execute FD.

If you want to see the function diagram (including the focus) for a function of the form  $y = mx + b$ , execute FDF. You will be asked for the values of m and b.

### When You Are Done

When you are done using the program, you will need to restore the calculator to its usual state (e.g. ZoomDecimal, CoordOn, AxesOn... The latter two are under  $2^{nd}$  Format.) You will also need to turn on the function(s) in  $\boxed{Y=}$ .