TI-82/83 *Setting the Viewing Window*

Example

Graph the function $-8x + 25$ and adjust the viewing window to see more of the function.

STEP 1: Press [Y=] and enter the function $y = -8x + 25$. Use [(-)] for the negative sign, not [−]. Press [GRAPH]. Note that you cannot see where the function crosses the *y*-axis.
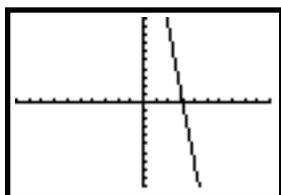
STEP 2: Examine the current [WINDOW] values by pressing [WINDOW]. Edit the value of **Xmin** by pressing [▼] [(-)] **5** (**TI-83:** Only press [(-)] **5**). Press [▼] or [ENTER] to move to the next value. Set the remaining [WINDOW] values using the following key sequence: **5** [▼] **1** [▼] **0** [▼] **40** [▼] **4**. Compare your screen with the one on the left.* The screen on the right shows which aspect of the viewing window each [WINDOW] value controls.

STEP 3: Press [GRAPH] to view the screen below.
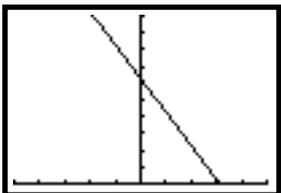
***TI-83:** The value **Xres** appears underneath **Yscl**. **Xres** determines the thickness (from 1 to 8) of the lines and axes when they are drawn on the screen. For the best results, leave **Xres** set at 1.

Exercises

Set the viewing window to each set of values to graph the function $y = 4x^2 + 11x$.

1. Xmin=−5   Ymin=−8
    Xmax=1   Ymax=1
    Xscl=.5   Yscl=1

2. Xmin=−4   Ymin=−10
    Xmax=1   Ymax=10
    Xscl=1   Yscl=2

3. Xmin=−10 Ymin=−10
    Xmax=10 Ymax=300
    Xscl=1   Yscl=25

Answers

1.

2.

3.