## **Use Technology: Using a Slider**

## Using *The Geometer's Sketchpad*®, you can control the graph of a line using a slider.

On the Edit menu, click Preferences. Click the Text tab, and select For All New Points. Click OK.

Draw a line segment AB as shown. Draw a point C on the segment AB. Ensure that all objects are deselected. Select A, B, and C in order. On the **Measure** menu, click **Ratio**. Move point C back and forth, and observe what happens to the value of the ratio  $\frac{AC}{AB}$ . Change the label of the ratio to **m**. You will use this ratio to control the slope of a line.

On the **Graph** menu, click **New Function**. When the **New Function** dialog box appears, click the measure **m**. Then, use the keypad to add \*x + 2. Click **OK**.

On the **Graph** menu, click **Plot Function**. Move point C back and forth. Note what happens to the function.



You can also right-click the point C, and click Animate Point to move C back and forth.