

## How to Do Page 168 Example 2a) Using *The Geometer's Sketchpad*®

1. Use *The Geometer's Sketchpad*® to graph function  $h(t) = -490t^2 + 150t + 25$ .

- Click on Graph and choose Grid Form.
- Choose Rectangular Grid.
- Click on Graph and choose New Function.
- Press  $-490$   $x$   $^$   $2$   $+$   $150$   $x$   $+$   $25$
- Enter or press **OK**.
- The expression is now on the sketchpad screen and should be highlighted. See Figure 1. If it is not highlighted, click on the selection tool, , and select the equation.

2. Click on Graph and choose Plot Function.
- To change the scale on the x-axis or the y-axis click on the selection tool. Drag the point at  $x = 1$ . (For this equation, it will need to be dragged to the far right of the screen.)
  - Drag the point at  $y = 1$ . (For this equation it will need to be dragged toward the origin.)

3. You may wish to use the slider on the bottom of the screen to move the graph to the left or right. You may want to select the equation and move it closer to the graph as shown in Figure 2.

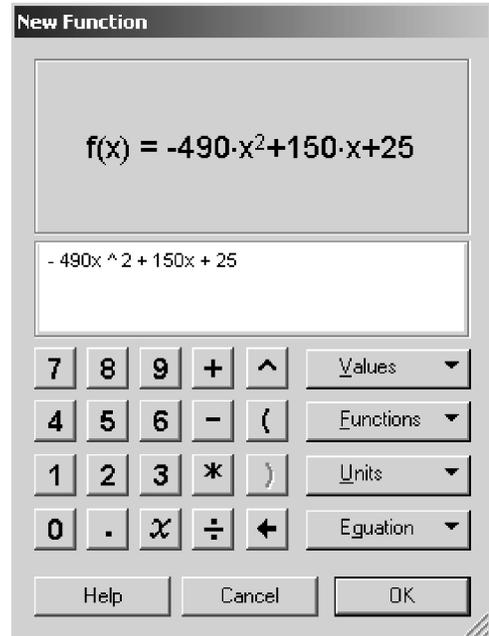


Figure 1

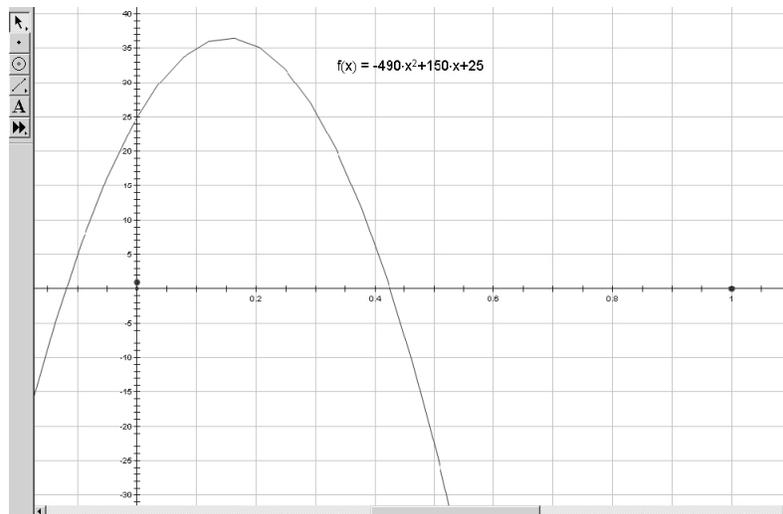


Figure 2

