Name: _____ Date: _____

How to Do Page 300 Example 4 Using TI-83/84

Use the TI-83/84 to graph the formula $h = 4.5a + 25$ for domain [14, 42] and range [88, 214].

1. Place the calculator in Dot Mode. This will eliminate the vertical lines at the start and end of the domain.
  - Press MODE.
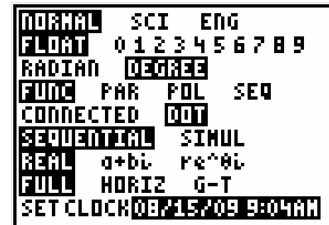 - Cursor over DOT.
  - Press ENTER. You will see Figure 1.

Figure 1

2. Set the window variables.
  - Press WINDOW.
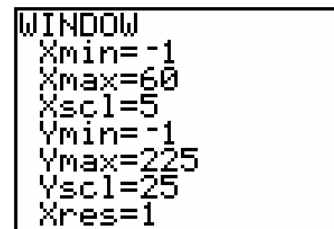 - Use the given domain and range values to set an appropriate window setting. You will see Figure 2.

Figure 2

3. Enter the equation of the relation and the domain in the form (equation)(domain).
  - Press Y=
  - Clear any previous plots.
  - Enter the equation in brackets: $(4.5x + 25)$.
  - Enter the domain.
    – Press (X,T,θ,n 2ND MATH and select 3: >. Then, enter 14.
    – Press 2ND MATH and cursor over to LOGIC. Select 1: and.
    – Press X,T,θ,n 2ND MATH and select 5: <. Then, enter 42 and press).
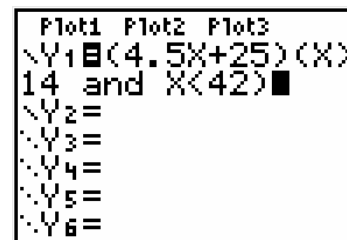   – Press ENTER. You will see Figure 3.

Figure 3

4. Display the graph.
  - Press GRAPH. You will see Figure 4.
  - Press TRACE to display values on the graph. You will see Figure 5.
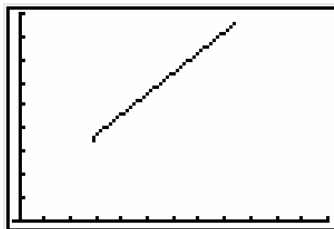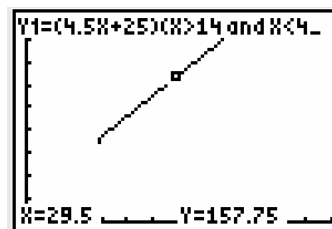 - Use the left and right arrows to move the trace point along the graph.

Figure 4

Figure 5