PRECALC SEC. 2.2 CLASS EXAMPLE

EXAMPLE 4 **Average Cost Function**

The average cost $\overline{C}$ of manufacturing x computers per day is given by the function

$$\overline{C}(x) = 0.56x^2 - 34.39x + 1212.57 + \frac{20{,}000}{x}$$

Determine the average cost of manufacturing:

(a) 30 computers in a day

(b) 40 computers in a day

(c) 50 computers in a day

(d) Graph the function $\overline{C} = \overline{C}(x), 0 < x \leq 80$.

(e) Create a TABLE with TblStart = 1 and ΔTbl = 1. Which value of x minimizes the average cost?