2. [10 points] Lucy Lemon, the owner of a local lemonade stand, has observed that her lemonade sales are highly dependent on the temperature. Let L(T) denote the number of cups of lemonade Lucy sells on a day whose average temperature is T° Fahrenheit. Below is a table of values for the **derivative**, L'(T). Assume that between each pair of consecutive *T*-values in the table, L' is either strictly increasing or strictly decreasing.

T	50	55	60	65	70	75	80	85	90
L'(T)	-5	-4	-2	2	5	6	3	-2	-3

a. [4 points] Approximate the values of T at which L(T) has a critical point, and classify each as a local maximum, local minimum, or neither. (No explanation is necessary.)

b. [6 points] Suppose on a day when the temperature is T° Fahrenheit, Lucy sells R(T) dollars worth of lemonade. Assuming cups of lemonade sell for \$1.50 each, compute R'(80), and write a sentence expressing the meaning of R'(80) which would be understood by someone who knows no calculus.