3. [12 points] Representative values of the derivative of a function f(x) are shown in the table below. Assume f'(x) is a continuous function and that the values in the table are representative of the behavior of f'(x).

**a.** [6 points] Estimate the location of the global maximum and minimum of f(x) on the closed interval [0,3]. Justify your answers based on the data in the table.

**b.** [6 points] Can you tell from these data if f(x) has any inflection points? If so, estimate the location of any inflection points and indicate how you know their locations. If not, explain why not.