

2. (10 points) Suppose f has a continuous derivative whose values are given in the following table.

x	0	1	2	3	4	5	6	7	8	9	10
$f'(x)$	5	2	1	-2	-5	-3	-1	2	3	1	-1

(a) Using the data in the table, estimate x -coordinates of indicated critical points of f for $0 < x < 10$.

(b) For each critical point above, indicate if it is a local maximum of f , a local minimum, or neither.

(c) Approximate interval(s) between $x = 0$ and $x = 10$, if any, for which the data indicates that the graph of f is concave up?

(d) If $f(0) = 4$, approximate the value of $f(0.2)$.