

7. Table 1 below shows some values of the function $f(x)$. Assume that both f' and f'' are defined on $[-1, 7]$.

Table 1

x	0	1	2	3	4	5	6
$f(x)$	-2	1	5	12	15	16	13

Table 2

x	0	1	2	3	4	5	6
$f'(x)$							

- (a) (4 points) Use the data given in Table 1 to fill in approximate values of f' in Table 2.
- (b) (1 point) Where does the rate of change of f seem greatest?
- (c) (2 points) What is the largest interval over which the table indicates that f is concave up?