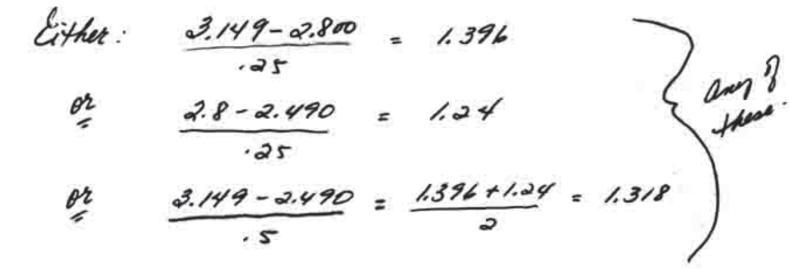
8. (7 pts.) A function f is defined for all values of x and the following is a partial table of its values.

x	-0.75	-0.5	-0.25	0.000	0.25	0.5	0.75
f(x)	1.968	2.214	2.490	2.800	3.149	3.542	3.983

(a) Using only the function values from the table, give your best estimate for f'(0).



(b) Based on these function values, would you expect that the function f is concave up, concave down, linear, or none of these? Why?

The function appears to be concerne up, because the rate of change is increasing Note that the 1x is 25 for each, and , .441 Af = . 246, . 276, . 31,