

mustbe So F' to mereasing! Thm Suppose Fisture diffile on I. 1) If F'(x) > 0 for every xeI than f is concaveur on F down 11 2) II P"(x) KO I dea: F'(x) > > F' is increasing => +is concare up. Det An inflection point of a Function fis a gointe Buch that I's continuous at a and the concernty of f changes at c. Graph of F Carph of Ft Graph, of f Inflec concare up in flection Thm suppose f" to continuous at c. If cis an Mection point so of f then f"(c) =0. conflection => f'(c)=0 Note Converse is false! (That is, 1"(5) =0 does not necessarily) imply e inflection for f defined by FCO = XY for all KER. $f(x) = 4x^3$ $f'(x) = 12x^2$ so f'(0) = 0but I is concause up every were. so zoro not int. pl Solveng for files = + tribs condidutes for int. points





