1. a. (1,3)(4,6)b (0,1)(3,4) C. (9121,3) J. (3,4) (4,6) E. (3,41)

\$ r \if 15 MLessin From [6,3), and Leavening

from (3,6) b. local max atx=3 73 6. Increasing fin [2,4), Lerosasa from CO, 2) and (4,6) 6 p. local mn: 422 locan prop. Vol. 1.U. f'(x) = 12x2 + 6x -6 (2x2 + x -1) 6 (x+1) (2x-1) critica = -1, 5

(2+1)2 f'(x) is negte for all x2 - and x>+ f(x) is poste FOGLXCI local min = x=0 13. FOXOS X - SIN X f is declaring from (7, 54) 572 272 on the internal 2x < 2t. The 15 local may Syx It ("(x) = -51n - cosx (x)=(-2x)(ex) Uritual = 375, 7/2 contre form THIS INTERPLE POINT (52,52) 25. what? I'HPPH POIL imposible? 26 46 horselvis + f(x) <() 2x (x44) 12x(x24) (x34) min 15 -1 49. Concar up X>0 hoizala) = 0 inflering (-0, 52), (E,a) f'60 70 Wm X70 是是 fruico when xco