Significant & KEM in cosi (die است دراسفورت معنوب است مقدار صربی . f(a+ 1) + f(a+ 1)+ -+ f(a+ k)-kf(a) = $\lim_{n\to\infty} \frac{1}{(n+\frac{1}{n})} - \frac{1}{2}(\alpha) + \frac{1}{2} + \frac{1}{2}(\alpha) + \frac{$ f'(a) + tf(a) + ...+ kf (a) = f(a) (144+ ... + 14) = K(K+1) + (a)

f(1)=f(0)=000,1,2E I , 20,5,000, 1,5, I ; 1,00; 1,5 f incip; det . f (b)> 1/2 ~= b = I im = c'. f(2)=1 $\frac{dv \circ}{dv} \ni C_{1} \in (0,1) \subseteq I : f'(C_{1}) = 0$ $\frac{dv \circ}{dv} \Rightarrow \exists C_{2} \in (1,2) \subseteq I : \frac{f'(2) - f(1)}{2 - 1} = f'(C_{2})$ $\frac{f'(2) - f'(1)}{2 - 1} = f'(C_{2})$ $\frac{f'(2) - f'(2)}{2 - 1} = f'(C_{2})$ $\frac{1}{2}$ b $\in (C_1, C_2)$: $\frac{f'(b)}{c_1 - c_1} = \frac{1}{c_2 - c_1} > \frac{1}{2}$ => f'(6)> ½. D

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Sinx < 1 < 2 T(x.

(somes of a f(x)=Sinx & t (s) o 601, o < x < 2x /1

مقدار میانین داریم :

 $\frac{\sin x - \sin o}{x - o} = \frac{\sin x}{x}$

= f(c) = sos(c) < 1

· CE (0,21) (01,5)

=> Sinx <x.

$$\frac{f(x) - f(0)}{x - 0} = \frac{\sqrt{1 + x} - 1}{x} = f(c) = \frac{1}{2\sqrt{1 + c}} \Rightarrow \frac{1}{2}$$

$$= \frac{1 - \sqrt{1 + x}}{x} \qquad (0 \le 1 + x < 1 + c < 1)$$

×<0 1-51+x>-> 1+ 1+ 1/2 > 51+x.