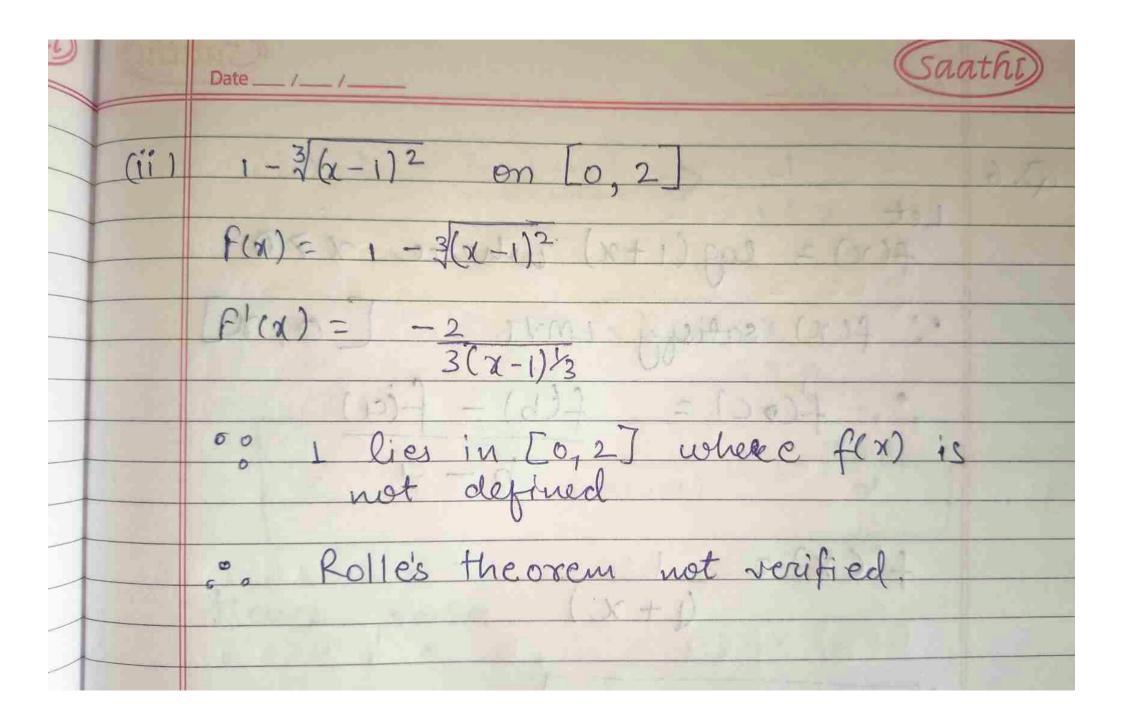
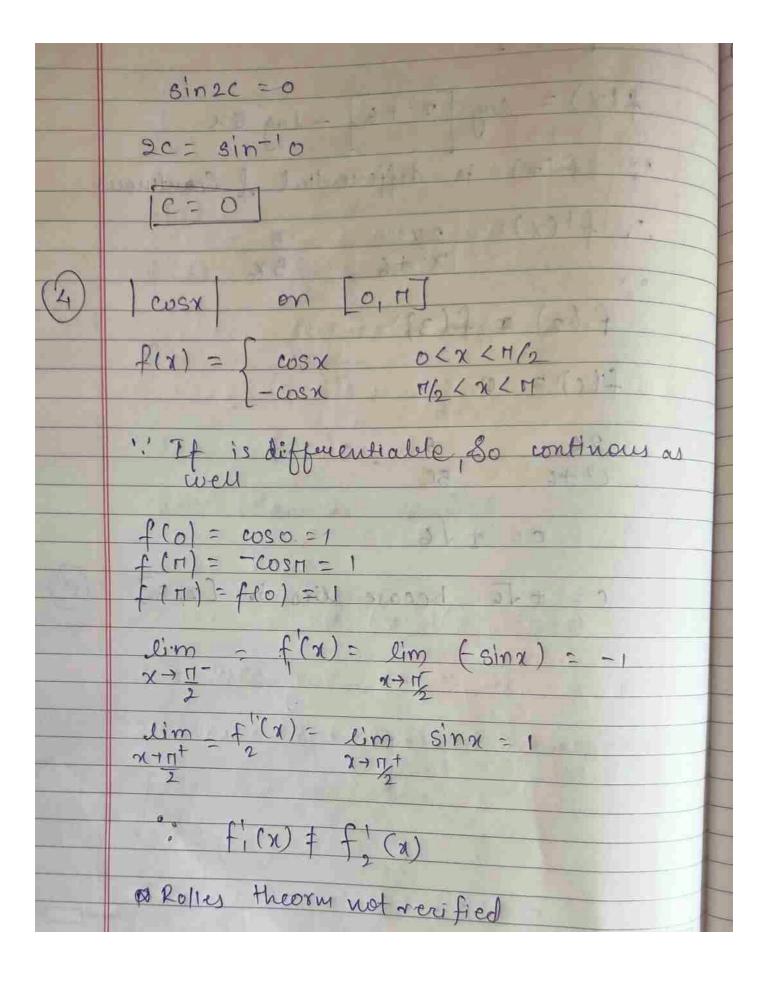
Caathi Date ___ / ___ / ____ Putorial - 01 Calculas 0 $f(x) = \log(x^2+6) - \log 5x$ f'(x) = 2x - 5 - 3 $x^2 + 6 - 5x$ $\frac{2C}{2+L} = \frac{1}{C} = \frac{1}{2}$ C= + 16 (1) + -11-2018 = CK1 1 0 3 (3) # 1 HE 18 (3) 1 mg



3	$\cos^2 x$ on $\begin{bmatrix} -\pi \\ 4 \end{bmatrix}$
	$f(x) = \cos^2 x$
	f'(n) = 2 cos x (-sinn)
	$f(-\frac{\pi}{4}) = f(\frac{\pi}{4})$ $f(c) = 0$



Given of mily some many F(x) = x(x+1)(x+2)(x+3)F(x)= x94+5x3+6x2+x3+5x2+6x $f(x) = x^4 + 6x^3 + 11x^2 + 6x$ Now $f(x) = 4x^3 + 18x^2 + 22x + 6$ of f(x) is differentiable so confinous. we have interval Put f(x)=0 So we have f(x)= x(x+1)(x+2)(x+3) =0 ·. We get x = -1, -2, -3, 0We have 3 Real soots as -1, -2, -3

Given: y= x2+2k,x+k2, x=a, x=b dy = 2x + 2k, is equation of tangent to choud. but those tengent is parallel to x=q, x=b Tangent to were = 4+bit 20 K, 2x+2k= q+b+2k

Date ___ /___ /____ sin1x X Hence proved.

Date ___ /___ /____ sin1x X Hence proved.

Date ___ /___ /__ Q.6 f(x) = log(1+x) where x70 f(x) satisfy LMNT folles theorem hat 20(x) 17 log(1+x)-0 Now, 1+0

