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MATRIC NO: 19/MHS01/366

COURSE CODE: MAT 104

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19 mrts01/366	
COGTH APRIL' 2020	
(CO CALCILUS	
- Land Mount of wol like pull the will will	
Incorporation lack other. (1) 4-3x-2=0 and	
3y+x+9=0(2)3y-4=2x+3 and y-5=x+6. 3 find the equation 3 of the tangent and normal to	
- 3 find the equation 3 of the	2 tangent and normal to
- the curve x2 + y2 + 300 y	-11=0 at the point x=1,y=2.
-	
- BOLDTION.	8 3y-H=20c+3 and y-5=x+6
- 1. y-30c-2=0 and 3y+xc+9=0.	3 3y-H=20ct 3 and y-5=x+6
3 1 1	3y-H=2x+3-12.
- With both equations in form	3y = 2x + 7
With both equations in form of y=moctc.	y=3/3x+1/3
	$m_1 = \frac{7}{3}$
y-30c-2=0·-0	y-5=20+6-(1)-
y=30c+2	$y = x + 11$ $m_2 = 1$
$m_1 = 3$	$m_2=1$
2	6 0 1 V
3y+x+9=0 -0	Since Mi 7-1/m2
$\frac{3y = -x - 9}{3}$	The lines by - 4 = 2x+3and
$y = -\frac{1}{3}x - 3$	y-5=x+6 are not perendialar
$m_2 = -\frac{1}{3}$	
Since m, = -1/m2.	
The lines y-3x-2=0 and	
(3y+xc+9=0 are perpendicular.	

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202+y2+30cy-11=0

x=1,y=2.

2xdogx + 2ydydx + 3(x. 1dydx + 1. ydxdx) -0 = 0.

20c + 2y dy (x + 3xdy (x + 3 = 0)

200 dy(x(2y+3x)=-3-2x.

dy = -3-20c da 2y+30c

dx = -3 - 2(i) dx = 2(2) + 3(i)

dy = -5

EDUATION OF NORMAL EQUATION OF TANGO y-y=m(x-x) y-y, =m(x-x)

EQUATION OF TANGENT

 $2 - 2 = \frac{9}{5}(x - 1)$

1-2=-5/2(x-1).

4-2=76x-76.

7y-14=-50c+5

5y-10=7x-7

7y = -5x + 19

5y = 9x - 3