NAME: ONWUKA UGOCHUKWU DATE 3 4/4/2020 MATRIC NO.; 19/ENG 05/055 DEPT: , Mechatronics LECTURER NAME; DB. OYELAMI
Assignment  ) Im X - Cosx = (im (1:- cosx)
$= \frac{1}{10} \frac{1}{10}$
$\frac{o(x/dx)}{-c-sin x} = sin x$
$\frac{1}{x-30} = \frac{1}{5} = \frac{1}{5} = \frac{1}{5}$
3) $y = -3 \tan 2x e^{3x}$ Broduct nue; $uv = u^{2}v + v^{2}u$ $u' = +215ec^{2}2x$ $v' = 3e^{3x}$
$\frac{u' = +215e(^{2}7x)}{215e(^{2}7x)} = \frac{3e^{3x}}{4} = \frac{3e^{3x}}{4} = \frac{3e^{3x}}{4}$ In the second of the secon
3) $y = \cos 3x$ $f'(x) = 6 f(x+4) - f(x)$ $f'(x) = 6 f(x+4) - 6 f(x+4)$ $f'(x) = 6 f(x+4) - 6 f(x+4) - 6 f(x+4)$ $f'(x) = 6 f(x+4) - 6 f(x+4) - 6 f(x+4)$ $f'(x) = 6 f(x+4) - 6 f(x+4) - 6 f(x+4) - 6 f(x+4)$
Recall: (3 A - Cosi3 2510 (A+13) Sin (A-13)
A = 3(x+4) = 3x+3h $B = 3x$ Scanned by TapScan.

F(x) = (m - 25m (6x + 3h) 5m/3h) 25m (3x + 3h) Sin (3h) Fi(x) = 1.m - 2 sin (3x + 34) x sin (34) F'(x) = 1.m - sin (3x + 3h) x sin (4/2) Multiply each term  $f'(x) = 1.m - 3 \sin(3x + 34) \times 3 \sin(34/2)$   $\frac{1}{2} + \frac{3}{2} = \frac{3}{3} + \frac{3}{2} = \frac{3$ f'(x) = (im) - sin(3x+34) x 3 = -(5in 3x) x 3 · (x) = -3 sin 3x (a) g(x) = -3(x)  $\frac{1}{3}(5) = -3(5) = -15$  $f(5) = 2(5)^3 - 7(5) = 250 - 35 = 215$ (f-9)(5)=315-15=2004 x 1 2 3(x) - 2x+3 = (x) = 4(2x+3) = 4(4x2+12x+9)

