A Find The value of F(0.6) by taylor series if f(0.5) = 1 F(0.5) = 2.5, F"(0.5)=2 and all other higher order derivatives of f(x) at x=0.5 are zero F(x+h) - F(x) + h(F(x)) + 1/2 P"(x) N=0.6-0.550.1 f(0.6) = f(0.5) + 0.1 f'(0.5) + 01 f'(0.5) = 4.26 * find y (0.1) if y'= - y + x+1, y(0) = 1 by using taylor series to fourth order $9(x+h) = 9(x) + h(9(x)) + \frac{h^2}{21}(9(x)) + \frac{31}{31}9(x)$ 5001; X050, Y051 -> Y'= (-X+X+1) $y(0.1) = y(0) + 0.1 \times y'(0) + 2!$ y''(0) + 3! y''(0) $9(0.1) = 1 + 0.1 \times (-1+0+1) + \frac{(0.1)^2}{2!}(1) + \frac{(0.1)^3}{3!}(-1)$ y'' = -y' + 1 = 1 y''' = -y'' = -19(0.1) = 1.0048332محمد و امیرة--

Subject موضوع الدرس	Date الناريخ
*Maclauren	
ECM = ECO) + MCE, (O)) + p3 E.(O) +	The state of the s
$\frac{f(x) = e^{x}}{f(x) = e^{x}}$	
error	
$B^{\mu} = \frac{c\nu + \rho i}{(x - P)_{\nu + i}} C^{\nu} C^{\nu}$ $C \in \mathbb{C} X$, X+h]
*How many terms would it require to	
10-6	Assignment to
$R_{n} = \frac{(x-h)^{n+1}}{n+1} P(c) \qquad C \in [X, X+h]$	X = 0
$\frac{(-1)^{n+1}}{R} = \frac{(-1)^{n+1}}{R} = \frac{1}{R} = \frac{1}{R$	50×C×1
$K_n = (n+1)! \qquad (n+1)! \qquad (n+1)!$	1+1) 1 ₈ 5 6 0
e (10-6 (210-6) 406 e ((n+1)) → 10	6e (n(n+1)
A A 1	2 54 6

Subject موتسوح الدرس -> Backsub. -> forward elemination > number of steps: of forward elemination (n-1) solve The system by gauss elemination 2R1-R2 0 3 R1-R3 20 10 (X) + 2(0) +74+4(2)=8 -6Z 5+12 450 X = 0Assignment 1: をRI-R2 19 R2-R3 2(x)-3