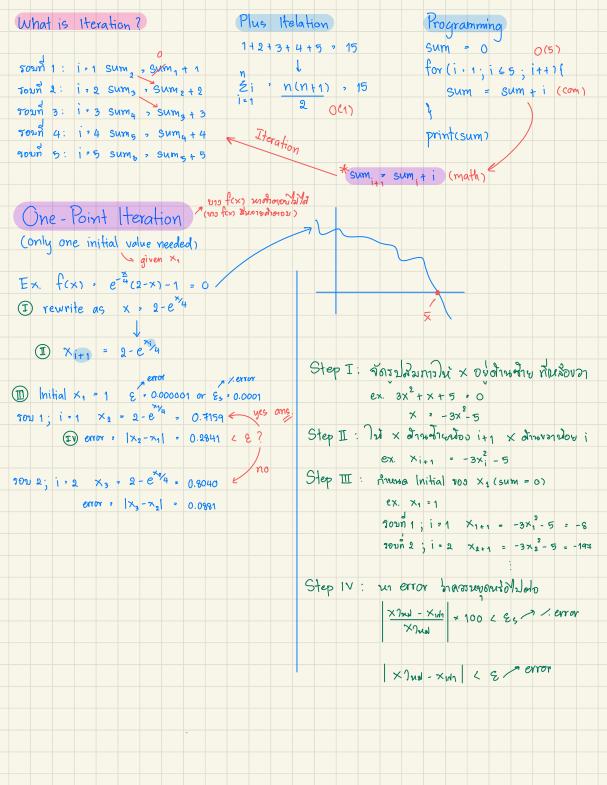
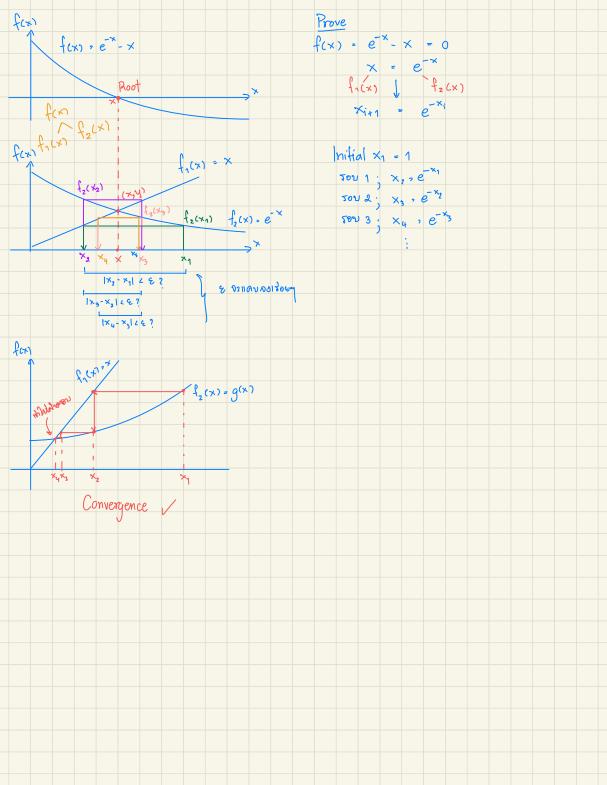
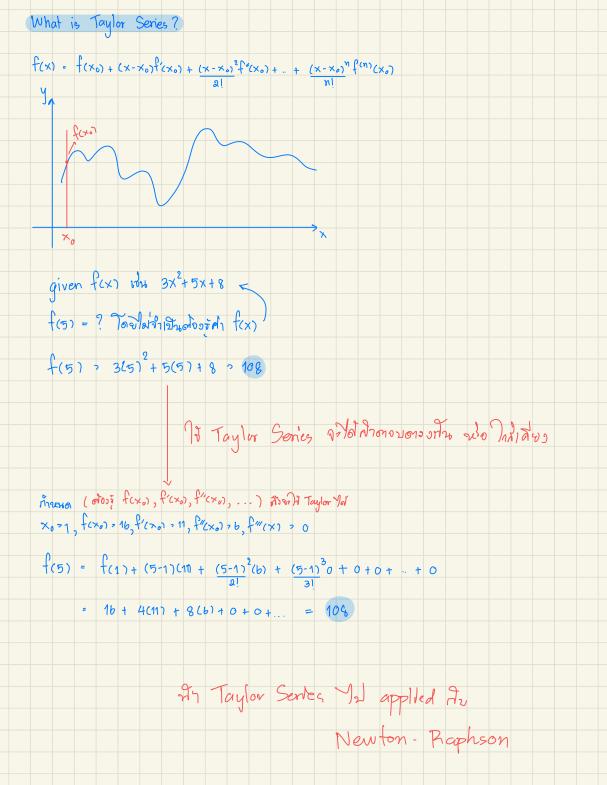


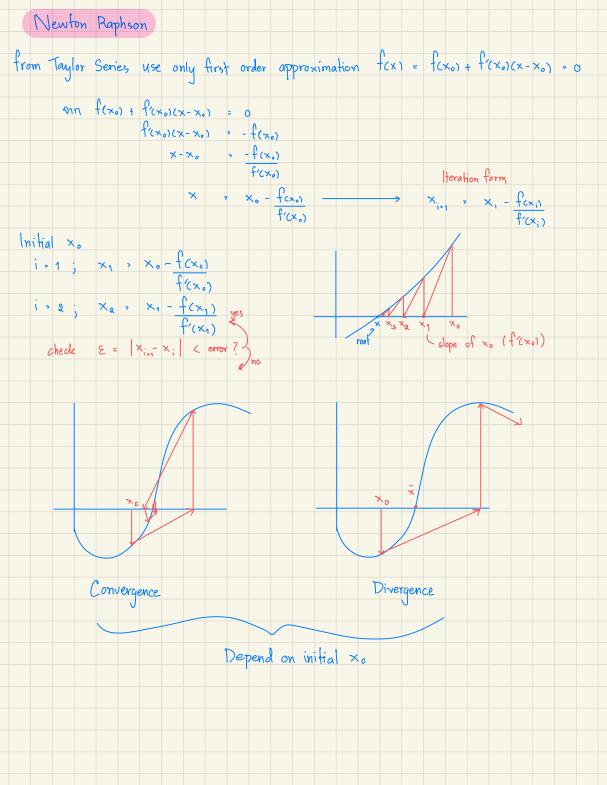
Iteration	9: X 7-0.118195 XA 2 0.3125	
	0.54694 0.31257/2 = 0.0971875	
f(xm)	<sub>2</sub> -1. 2225	
f(XR)	7 0.5	
fcxm). fo	× n 7 ( 0 × , - × n - 0.0971875	
Iteration	7: X, 70.0971875 XA - 0.3725	
×n = (	0.54644 0.31257/2 = 0.02048	
f(xn)	, - C 36125	
f(XR)		
fcxm). fo	× n 7 ( 0 : x - x m . 0.02048	
	0: X1 , 0.02048 ×A = 0.3125	
	10204 0.31257/2 = 0.16649	
f(xn)	- 0.66°cos	
f(XR)	7 0.5	
fcxm). fo	<	
tal:	e-Position Method	
3		
\u2000	Bisection modulation $x_n = f(x_n) \cdot x_1 - f(x_1) \cdot x_2 - f(x_1) \cdot x_3 = \frac{1}{x_n} - \frac{1}{x_n}$	
	^h - ^c	







und f(3) > ? Tout Taylor Series No X = 1 1127 f(x) = &x3+3x2+5x+1 f(3) = 97 f(x0) , f(1) = 2(1)3+3(1)2+5(1)+1 = 2+3+5+1 = 11 f'(x) , 6x2+6x+5 f'(1), 17 f''(x) ? 12x + 6 f''(1) ? 18 f'''(x) ? 12 f'''(1) ? 12 f'''(x) ? 0 f'''(1) ? 0  $f(x) = f(x_0) + (x - x_0)f(x_0) + (x - x_0)^2 f''(x_0) + (x - x_0)^3 f''(x_0) + (x - x_0)^4 f''(x_0)$ =  $\frac{11}{2} + (3-1)(17) + (3-1)^{2}(18) + (3-1)^{3}(12) + 0$ 2 11 + 34 + 36 + 16 7 97



example of New	wton Raphson	1				
Find root of f	(x) = e 4 (2	-×)-1 = O	by writing a	computer pro	ogram (x. > 3	, & , 0.001 > )
f'(x) = -	$-e^{-\frac{1}{4}} - \frac{1}{4}e$	1 (2-x) - 0	- e * (-	3 + × 4 )		
Secant	Meth	-0 d				
f'(x1) =	fexor-fo	(x1) = Du		จาก	×1 , ×.	f(xi)
	×0 -×	C(x <sub>1</sub> ) = Δy	K		×1 , ×0 -	fexin
חיה	2	f(X <sub>1</sub> )			X. = X.	- fcx1)(x0-x1)
	2	f'(X)			2 4	fcxor-fcxor
						10,01 10,41
		f(x1)(x0-x1)	5			