Nama : Eko caputra NIM : 201420001

Kelos & IF3A

MK & Analisis Kumerik UTS

I. Selegoikan Sistem Prsamaan linier Derikut dengan metade eliminasi Gauss.

Kalikan baris i dengan -3, lalu tambahkan ke baris ii

Kalikan baris i dengan (-2) lalu tambahkan Kebaris (iii)

$$\begin{pmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 \end{pmatrix}$$
 | Adu tambah ke -3

Jadi XI = 1

X2 = 1

X3 = -1

4

$$y=1+(15-10)(2-1)$$

$$=1+0,72=1,72$$

b. Log (29) =

$$7 = 1 + (25 - 10)(z - 1)$$

$$(100 - 10)$$

$$= 1 + 0.16 = 1.16$$

C. Persamaan Interpolosinya

$$log(75) = 1.82$$
 galat =  $1.87 - 1.72 \times 100\% = 0.6$ 
 $1.82$ 
 $log(25) = 1.39$  galat =  $1.39 - 1.16 + 100\% = 16$ 
 $1.39$ 

3. Carilah akar Perdekatan Funggi 
$$F(x) = x^3 - x - 2$$

$$G = 0.1 \quad \text{don} \quad X_0 = 2$$

$$\text{Jawab} \quad F(x) = x^3 - x - 1$$

n	4	F(a)	16	F (b)	c= 266	F(c)	1000
1	0.1	-1099	2	5	1.65		UPdate
2	2,05	-08924	2	9		-0.8524	a = c
3	1,05	-0.8924	1.525	10216	1.575	1.0216	p = C
4	1,2875	-0.1533	1.525		1.2675	-0.1533	0=0
	1,2875	-0.1533	-	1.0216	1.4062	0.3747	b > c
7 (10)	1,2875	-0.1523	1.3742	0.3747	1.3469	0.0969	b = c
	1.31721	-0.0319	0-100	00965	1.3469	-0.0319	
8	1.3177		13969	0.0964	1.732	0.0312	a=e
		1-0.0318	1-332	10-0314	1.3246		10-0
Jadi lampiran acar x = 1.3246  -0.000							14=e

4

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4. Temukan deret toylor dan Maclauren F(x) = ex-cos(x)

Sampai Suku Ke &

Jawas :

Maclauren F(x) = ex - cos (x) a = 0

F'(0) (x-0) = 2x cos 2(0) (1) = 1

 $H = I + \frac{1}{2} (0) (x-0)^{3} = \frac{-2}{2} (0) \sin(0) x^{2} = 0$ 

 $h = 2 F'(0)(x-0)^2 = \frac{-2}{2}(0) \sinh(0) x^2 = 0$ 

 $h = 3 P'''(0)(x-0)^3 = (-2 \text{ Stu}(0) - 2 \cos(0) e^{(0)} x^3 = -2x3.$ 

11 = 4 F (0) (x-0) = -4 e (0) cos (0) x4 2-4xa

1 = 4 F (0) (x-0) = (4 sin(0)-4 cos e(0) x = 4x5

0 + x + 0 x2 + -2 x3 + -4 x4 + -4 x5. dst.