Jama: Sheva Hoya M	1400	No.
NIM: 105222036		Date · ·
Tugas Metode N	umerik	
V. Diketanui f(x)=sin (o	5 VX) Tenwan wwhon	pertama dari fdix=1 dan h=0,2. Guna k
metode: av		1.0 - (MO) 7 - (H. 1-X) 7 + (M-X) 7 6 - (A) 3 - (A) 1/4
a) serisin maju	140	*H
f'(x) = f(x+n) - f(x)	= f(1,2) - f(1) = 0,4332 - 0,4	1794 = -0,0462 = -0,231
h	012 012	$012 \rightarrow f'(x) = -0.1231$
11)= (17=10)= Sin	(0,5) = 0,4794	1 = 262 0 10 1 0 0 80 10 x = 44440 = (4.0) 1 1
1/0/0	10.0	0,0
6112)=(n(0.5)[12).5	n (015 × 1,095) = sin (0,547	15) - 0,5198 - 0,4332
112	112 (12)	0374 112 10) 2 . (d-x)2+ (x)35- (21-x)3+(x)04
	4/10	- 78
b) selish mundur	((0)) 0 11011 0 51101	1 = -0.001 = -0.305
	0,2 0,9494-075400	012 ->f'(1) = -01305
×h°		74
f(1)= Sin(0,5 VI) = sin (0		when the same same and indicated
	1	Albertahui data jaxak sempa suna suna suna suna suna la
THE STATE OF THE S	(015 × 0,8944) 5 5 6 (0,44	72) = 0,4323 = 0,5404
13.1613 0.8		35 018 38 0 (ma)r
c) Selisih Pusat	I gualle des describbas	mergistings beiegalon dar perlegaton le
f'(x)=f(x+h)-f(x-h)=	1(1,2)-f(0,8)	rp3/4.1905/
2h		(a)6 - (se)6 -(a)0 : (a=9) notion y)ellos-
f(1,2)= Sin (0,5 VI,2) = S	n (015 x 1,095) = 54n (01547	15 20,5205 0,4338
		(84)12 (991, 651, 651, 641, 641, Average
f(0,8)=sin (0,5 \(\overline{0}\), si	(0,5 × 0,8944) = stn (0,4	472) 0,4323 = 0,5404
0,8	8008	1: (0:)v 0:8
f1(1)=f(112)-f(018) =	14338 - 015404 = -4 -011	066 = -0, 2665
Zh In I ve	2×012	u Priv
	SE SE- 001	
2) Diretahui f(x)= x2co	X. Tennikan human k	sedua dari f di x=0.4 dan h=0.1. Gunoje
merode:	30 001-35	
1 64 44 40 74		December
(1 + EIN - El 0,4 + 0,2) - 2E1	0,4+0,1) + f(0,4) = f(0,6)-2f(0,5) + f(0,4)
4 (x) = 1 (x)	A STEP IN	0,12
		= 0, 1474
	0,25 cos(0,5)=0,5 × 0,877	
	136 cos(0,6) = 0,36 x 0,8253	
		14388 +011474 = 010057 = 0157
レ しいりょうしょとのオー・スメ のん	1194 T U11474 = 0, 2971 - 0	ילוט ב דירייי ב פרטיי

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									Miga	rov	66000	outsin?
b). Selisih mun	durid	17.7	4 19	into per	19173	r mon	on me	(unn)	100	Demin	165 MIA 10	Many P.
t (x) = 1(x) - 5										*(4)		Janam.
	hz					0112					viery y	and the
f(0,3)=(0,3)2co	5(0,3)=0	0,09	X Co	5 (0.3)=	0,09	× 019	553=0	1089	60	2 , 1×34	- (847)4	(4) 9
t(013) = (013) 5	(012)	0,0=	4 cos	(015)=0	104 >	0,98	01=0,0	392	10			
f"(0,4) = 0,147	4-2×0	,086	0+	0.90	392 =	0,147	4 -0,1	72+	0,0	392 = (10146 =	1,46
		0,1					01				0101	
c) selisih Pusar	E	332	0,0	86/8	6 . 6	0 s 43 10) me .	(1095)	X 2:	o nice (Fillera) Mis	= (201)
f"(x)=f(x+h)	-2f(x)	tf(X-	·h)= {	(0,5)-	2 f (0,4) +	f (013)		21)		Til a	
	42					0112					-nulnum	الم جوارونام
f"(0,4) = 0,2194	- 2 (出	F 01	1474	1 + 010	860	= 0.2	194-0	2948	8-01	0860 =	0,0106	1106
	206.0	0,01	1126	- 1	0		2410	0,01	• 15	10	0,01	
2) 0.								-	-		R = (TV 810)	
3). Diketahui data			1	1								
	t(s)	0	25		15	100		(8,0)	x 819	1 48-1	rumus k	
	4(KM)	0	32	58	78	92	100		8,0		v(+)= 9	
meng esti masi	recepato	in d	on pe	ercepat	an k	endan	ian te	sp d	ehae	wakn	a(+)= 4	141-41 141-4;
- Yecepatan	1							(1,0)	1-16:	113 = (0)=	x) (N+X)	9=/2/9
-Selisih maju	(t=0) :	V(0)	= 4(2	5) - 4(0) =	32-0	= 32	=117	18km	15	ds	
	_	855	1 612	15)-4() -\	25-0	ne in	:00.7	× 1950	100 = (3	TV 200) 003	=(39)4
-Selisik Pusat	(t= 251	50, 1	15,10	o) : V(7	15)=	y(50) -	<u>-9(0)</u> =	58-3	52 ;	$\frac{2b}{26} = 1$	104 km/s	
	146	145 M									8,072,000	20/8/0/4
							= 20				8,0	
			5997		50/E	15-50	43	HE ! O	- 866	9.0 . 6	8. W. 7 - Gar	11 = (1)11
				V(·	17)=	1 <u>5U - 1</u>	2 <u>92 - 3</u>	18 =	25	= 0.56	rm15	
				.,1,	- /00	a£					-	
matured . 118 to	anh Pi	04 X	15 1	17.0[1	001=	The same of the sa	5-100	-	= 01	57 kml	• (x)) lod.	134.0.(0
·Percepatan						129	, -100				7	bourn :
The second secon	0.21	<u> </u>	0 0-		Hal	20)- 0	22-0	CL				
a(0)= 1,04-1,28	25	77	0,00	14 P FW	100				2 -0		U,0096 k	4115
<i>U</i> , <i>U</i>	141	0.20		Ange be			160 - 75		-		.0.	
9(25)= 0 0-1	ין דעו		= -01	5096				-			28 km/s	6(2)(0)4
a(25)= 0.8-1.	The state of the s	26		1 978 64	11. 2 19	PERM	25-100	719.5	190 191	100/876		- ((()))
56-1	.5											
	0,8 = -			10096		0,8293	X-0850	× (0)0		(A) (A)	(612) 205/0 612971 - 3	4.0.4