# BIBIOUIY SYED BOBAN SOUDD 2nd YEON BECS

## Assgriment No 203

#### ( DUESTION NO:01

 $f(x) = 2x^3 - 11.7 x^2 - 17.7 x - 5$  $f'(x) = 6x^2 - 23.5 x - 17.7$ 

7	f(x)	x	f(x)
- 10	- 2998	5	-136
-9	-2251.4	6	-100.4
-8	- 1636.2	77	16.2
-cp#13	-1140141	12 8 35 7	128.6
- 6	- 752	9	3.46
- 5	-459	10	648
- 4	-249.4		
- 3	-111.2		
-2	- 32.4		
	-1		ALE STREET
0	-5		
1	-32.4		Santa y
2	-71.2		
3	-109.4		

	lalot 1	in Pri	of ping						
	1. 84 20		pie						
	180	YE	WTON /	PAPI	HSOM			1	
1 S.N	vo Xi		$f(x_r)$	F'1	(xi)	. Xi+1	1		
1	7	10:	16.2	3-16	. 8	7-1449	6161	-	
2	7.1449	:	0-743709214	-	6925263				
							34345		
3	7-138=	739595	7-13873959	5 -0-00	13219681	7-130	766356		
4	7-13876	6356	10912666-05	120-3	1109011	7-138	766 197		7300
5	7-13876	6 197	-1.134896-67	1 120-2	3168913	7-1307	766198		3000
	400/11						1		
	FE	ALSI	E Poszi	NOE	ME	THOD	13/10/20 1/3/10/20 1/3/10/20		
	1-		7 10 10 10		- 1		0 0		
SNO	αι	Xu	fxi	fxu	Xm .	fxm	from * fxc	Hopkin	XL
1	7	8	-16-2	128-6	7.118.78453	3 -3-2316	523521 5703		
	7 10 -			No. No. Co.		-h./laun	*	1	1
2	7-111078	8	-3-231614631	128-6	7-133649153	4215	0321	2	1
3	7-133649	. 8	-0.6 (8474215	(28.6	7.1377454	1 20066	0.072621		1.25
								5	103123
4	7-137796	8	-0.117420066	128-6	7-13868227	5875	3624	6	1-343 2
5	7-130582	8	-0.0222 5875	128.6	7313073H343	-0.col/2 3 18263	9-30933 E-05		1.3593

### QUESTEON NO:02

 $f(x) = \chi^3 + 4\chi^2 - 10$  $f'(x) = 3\chi^2 + 8\chi$ 

+1

96161

73 9595

766956

766 197

6198

f(xo)
-10
-2
-10
-5
14 7 3
53
118

#### BISECTION METHOD

*fxL			- (	14 15				
	Moralis	XL	1 - Xu	f(xL)	F (%a)	Km	f(7m)	f(x1)*H4m)
3521								
	1	1	2	-5	14	1.5	2.375	-11-845
1867	2	1	1.5	-5	2.375	1-25	-1.796875	8984373
	3	1.25	1.5	-1-7969	2.375	1.375	0-16210937	8-0-29 12908
2621	4	1-25	1.375	-1.7969	0-16211	1.3125	-6.8483886	72 1.52448345
	5	103128	1.375	-0.8484	6-16211	1.3125	-0.3509820	5 0,297769418
4	6	1-34375	1.375	-0-351	0-16211	1.34375	-0.0964088	4 0.03384788
	7	1.35938	1.375	-6-0964	0 16211	1-36719	6.03235926	-0,00311918
933	8	1.35938	1-36719	-0-0964	0.03236	1-36328	-0.632149971	0-00301791

				1				
				2 2				1
67								
B-000 1939	1-364807032 -0-00 69 034 D. 000 1939	39 0-635192968	PESSES 32	14 6-63640 66	7	-0.0278	1-36355	S
145080040	1.36384 24 24 20 20 30541 0.00 30541	757549899 417	41455658 6-430351214	14 . 6.641453	7	11.0-	1-35855	7
8454500	Oren14536 58 1-38546342-4-88884863 -0.02473434	-	9.2564.10256	14 6.66 11 72161	7	408h-9-	1-33 663	0
0-68 95624	6.338827839 -0-4305647	1912411999 +44	th 6.31870947	14 10.736842105	7	-1.6023	1-26316	7
840113719	1-263157645 -1.602744	Saizh8982.0	77	14, 1	2	-5	1	T
fix La	f <sub>X2</sub>	1-X0 Fx1 *(1-x6) f61 * (x1-x0)/(xx1x) ×2	FX1 * 6	FXI ML-XI	2	×	2	ON.
		ANT METHOD		Se			,	
						27.0		1

			BISE	CTION N	LETHO:	D		
5. No.	XL	Χυ	f (XL)	F (xu)	Xm	f(Xm)	f(XL)*f(xm)	Conditio
1	0.5	1.5	-0.3512 7872	9 2-48168907	1	0.118281828	-0.252 317128	
2.	0.5	/	-0.35127872	9 6.718281828	0-75	0.117000017	-0.041099617	0
3.	0.5	0.75	-0.3512 7872	9 0-117000017	0.625	-0:131754043	0.046282393	0
4.	0.625	0.75	-0-13175400	13 0.11 7000017	0.6875	-0.01126253	0.001483884	0
5.	0.6875	0.15	-0:0112625	3 0-117000017	0.71875	0.051866773	-0-000584151	0
6	0.6875	0.71875	-0-6112625	3 0.051866773	0.703125 0.6953125	0 -92-0055528	-0.00022 5876	0
7.		The second second		3 0.020055528	0.6914062	0.004335331	0.00003918	

5-No.	X <sub>0</sub>	ECANT METHOD	X,	FXI
1.	0.5	-0.35/278729	1.6	2 48 168 907
2.	0.623996725	-0.133627467	1:5	2-48168907
3.	0.66875 5 398	-0.048193413	1.6	2.48168907
4.	0.684590329	-0.0176 40691	1.5	2.48168907

fx1 *(x1 - x6)	ffx1*(x1-x0] /(fx1-fx0)
2 48168907	0-81600 3275
2-17397753	0.8312 44602
2.062890642	0.815409671
2 -023 593267	0.809848787
	2-17397753

11	X 2	f X 2	fx2 + fx0	condition   Error
	0.623996775	-0-133627467	0.0616940487	19
	0.668755398	-0.048193413	0.006439964	0
12	0.684590329		0.000821249	0
	1155	-0-005982969	0.000101954	. 1

	f(x)= e		Raphson M	lethod x)=e^x	
S.NO	10002	f(Xi)	f'(xi)	Xi + 1	Condition error
1-	6-5	-0.351278729	1-648721271	0.113061319	
2.		0-040227496			0
3-	0.603344157	0.000393992	2 000 393992	0.6931472	0
и.	0.6931472	0.0000000 39	2.000.000.39	0.693147187	1