Ramazan Ya 022302240		Slayt - 2 1. sor
1) $x^3 - 2x^2 - 5 = 0$		on > 4 tane ) → bisestion
Xalt= 2 Xosf= 4	$f(x_{cs+}) = 27$ $f(x_{bol}) = 4$	Kalt. Xist <0 kök var.
XLOL = Xa+	<del>V</del> =3	
$2) \begin{bmatrix} 2, 3 \end{bmatrix}$ $X_{a} = 2$ $X_{\overline{a}} = 3$ $X_{k} = 2, 5$	f(xa) = -5 f( f(xa) = 4 f(xa) = 4,875	(Xa). f(Xz) <0  Lök var
3) $[2,5,3]$ $X_a = 2,5$ $X_b = 3$ $X_b = 2,75$	$f(x_a) = -1,875$ $f(x_b) = 4$ $f(x_b) = 0,671875$	f(xa). f(xa) <0 Lök var.
a) [2.5, z, 75]		
$X_4 = 2,5$ $X_0 = 2,75$ $X_6 = 2,625$	$f(x_a) = -1,875$ $f(x_b) = 0,671$ $f(x_b) = -0,6933$	875 F(xa). F(xa) <0
cevap: Xx=	= 2,625 (L) = -0,69335937	
	-101,33334	













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<sup>@</sup> www.stilevs.com.tr

kücük ev aletleri Slayt-2 2.son Ramozan Yaramisti 02230224005 ilerasyon > 4 tane Melod > bisaction 1) x3+4x2-10=0 [1,2] flxa).flxa)<0 f(xa)=-5  $X_0 = 1$ X0 = 2 Flx=)=14 Lik vor f(Ke) = 2,375 Xu = 1,5 2) [1, 1,5] f(xa) f(xa) <0  $X_a = 1$ f(xa)=-5 F(x=)= 2,375 Lak vor X0 = 1,5 f(xb) = -1,796875 Xk=1,25 3) [1,25, 1,5] fla) flx=1<0 Flxa)=-1,796875 Xa = 1,25 X== 1,5 f(x0) = 2,375 bob var. ((x) = +0,162109. Xz=1,395 4) [1,25, 1,375] f (xa)=-1,796875  $X_a = 1,25$ f(x=)=2375 X= 1,375 Xx = 1,3125 flxx) = -0,848388cerop= Xe= 1,3125 f(xx) = -0,848388 ---



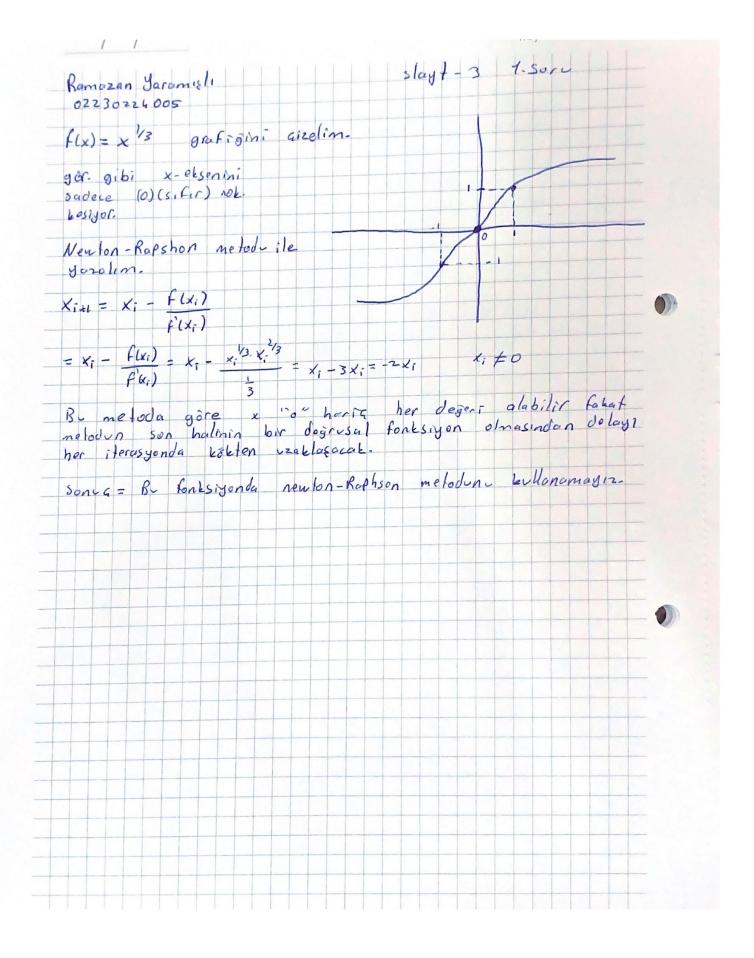












slayt -3 2.soru Ramazon Jaramigh 02230224005 F(x) = 4-e-0,5x -x f(x) = 4. (-0,5). e.5x - 1 = -2. e.5x - 1 X0=2 4 tane iterasyon 1)  $X_1 = X_0 - f(x_0) = z + \frac{4 \cdot e^{i} - z}{2 \cdot e^{i} + 1} = \frac{4 \cdot e^{i} + z + 4 \cdot e^{i} - z}{2 \cdot e^{i} + 1} = \frac{8 \cdot e^{i}}{2 \cdot e^{i} + 1}$ 0 = = = 1,695532 X1= 1,696532 2) X2=X,- Flx, 1 - 1,705 200 216 X2=1,705200216 3)  $x_3 = x_2 - \frac{f(x_2)}{F(x_1)} = 1,705211004$ 13=1,705211004 4) X4 = X3 - f(x3) = 1,705211004 X4=1,705211004 cevap: Xy= 1,705211004