	1)	f(x)=	W(X) +	X/10		Xo-25	X c = 3,8
--	----	-------	--------	------	--	-------	-----------

iteração	x ₁	f(x ₁)	Xr	f(x _r)	Xu	f(x _u)	$\epsilon_a \%$
1	2 (5	0,8485	3,15	0,3066	3,8	=0,2319	
2	3,15	0,3066	3,475	0,0202	3,8	-02319	9,35
3			, ,	1	l l		

Fager 2 Mercopes!

$$f(x_n)$$
: $nen(x_n) + \frac{x_n}{12}$

$$E = \frac{3.475 - 3.15}{3.475} \cdot 100 =$$

2) f(x)=	2em (X) + X/10	/ XL = 7,7	Xu = 815	R = 0, 6180
		1		

1 7,7 1,7586 8,0056 1,7891 8,1944 1,7621 8,5	1,6485	0,4944
2 7,7 1,7586 7,8889 1,7883 8,0055 1,7891 8,194.	4 1,7621	0,3055

Xmáx= (,0055 f(xmáx) = 1,7891Fezer 2 iteracços!

12 ITERAÇÃO

0: R. (XW-Xl) = 0,4944

F(XU= nem(xe) + 10 = 1,7586 F(Xe)= 1,7586

Xz: Xu-d: 3,005G

f(x4= nen(xz) + xz = 1,7891

X1 = X1 + 0 = 8,1944

 $f(x_1) = 2en(x_1) + \frac{x_1}{10} = 1,7621$

Xu = 3,5

fr(Xu)= 2en (Xu) + Xu = 1,6485

f(x2) > f(X1)

2- ITERACAD J: R. (Xu-Xl):0,3055 Xl = 7,7

1/2 = XM - 0 = 7, 8889

K1=K1+0=8,0055

f(x1): 1,7891

 $f(\chi_1) > f(\chi_z)$

X max = 8,0055

f(xmex)=1,7891

3) Uzando eliminação de Gauss, achor a zoluçãos de sistema. Em contror mo pinal as motigos [i] e[i]

$$\begin{bmatrix} 4 & 2 & 0 \\ 2 & 6 & 4 \\ 1 & 4 & 6 \end{bmatrix} \begin{bmatrix} X_1 \\ X_2 \\ X_3 \end{bmatrix} \begin{bmatrix} 60 \\ 83 \\ 62 \end{bmatrix} \rightarrow A\bar{x} = \bar{b}$$

$$m_{21} = \frac{\alpha_{21}}{\alpha_{11}} = \frac{2}{4} = 0.5$$

$$m_{31} = \frac{c_{31}}{a_{11}} = \frac{1}{4} = 0,25$$

$$\begin{bmatrix} 4 & 2 & 0 \\ 0 & 5 & 4 \\ 0 & 315 & 6 \end{bmatrix} \begin{bmatrix} X_1 \\ X_2 \\ X_3 \end{bmatrix} \begin{bmatrix} 60 \\ 58 \\ 47 \end{bmatrix}$$

$$m_{32} = \frac{232}{2} = \frac{315}{5} = 0.77$$

$$\begin{bmatrix} 4 & 2 & 0 \\ 0 & 5 & 4 \\ 0 & 0 & 3iz \end{bmatrix} \begin{bmatrix} X_1 \\ Y_2 \\ X_3 \end{bmatrix} \begin{bmatrix} 60 \\ 58 \\ 614 \end{bmatrix}$$

$$\begin{bmatrix} 4 & 2 & 0 \\ 0 & 5 & 4 \\ 0 & 0 & 3iz \end{bmatrix} \begin{bmatrix} X_1 \\ X_2 \\ X_3 \end{bmatrix} \begin{bmatrix} 60 \\ 58 \\ 614 \end{bmatrix}$$

Substituições Regnessinos:

$$(3-)$$
 $3/2)/3 = 6/4$
 $X_3 : 6/4 = 2$
 $\frac{3}{3/2}$

$$L_{2} - 3 = 5X_{2} + 4X_{3} = 58$$

$$SX_{2} = S_{3} - 8$$

$$I_{2} = S_{2} = 10$$

$$S_{3} = 10$$

$$L_{1} \rightarrow 4X_{1} + 2X_{2} + 9X_{3} = 60$$

$$4X_{1} + (2 \cdot (3)) = 60$$

$$4X_{1} = 40$$

$$X_{1} = 40$$

solução do sistema

$$\begin{bmatrix} X_1 \\ X_2 \\ \vdots \\ X_3 \end{bmatrix} = \begin{bmatrix} 10 \\ 10 \\ \end{bmatrix}$$