	icto 3 de materativo sli	surely IL	
1) am = am. + 5 c		•	0.2
do= 2 01=	7		<u> </u>
a) 02 = 0, +200	03=02+201	04=03+2-02	8 + X3
₩7= 1+5.5	d3=11+2.7	04=25+2-11	E to be a Visited Bill
0 5 = 17	az= 25	04=47	a the same
		A Sa Gallana	
b) D(x) = x2 - X - 3	$\Delta_{m} = C_{1}(\cdot)$	5) + C5(-7) m	A Profession
D= 1- 4.1(-5)		- A+V 3	14000
X= 1±3		page of the second	37.74
X,= 5 x,=-7	12 20 200	1	Come (1) (8) 5 - 1 (8) (8)
			man of the
c) m = 0	$\omega = T$	an = 3(2) + (-1)(-	1)~
2 = C1 + C2	7 = 2 C1 - C3	2 5 ×	
SC+C2=2			3
(267-65 = 1			
301=3		Liver to	
C1=3 C2=-	- 1		
1,01 3 0 0	<u> </u>	173 4 4	
	112x-8 : Por tent	ativa, uno rais or a	
$x^{3}-6x^{2}+12x-8$	x-2	7 2	
- 4 x2 + 12 x	X3-H×4A	Jain = 2	
+4×2-8×	A-16-4-1.4=0	multiply 1-10 3	
- 4x - 8	X,=5	(x-5),	7
-4x +8	SEALING TO THE	D= (41+42m+	× 2) 2~
0			

b) a = 3 01=4 0	2 2	
m=0	m = 1	m=2
(x+0y+0x) 20= 3	(x+4+x)2=4	(x+21+4g) 4=12
0,2	0	
X = 3	J-24-29=2	C 1 = 3
x+7+7=2	127+42 =0	C2=-Z
X +24+4x=3	27=2	C3 = 1
B+ Y+2=2	$\gamma = 1$	
(3+24+42=3	1-57-21-3	$(3-2m+m^2)2^m$
$\begin{cases} 3 + 3 + 3 = 0 \\ 3 + 23 + 34 + 3 = 3 \end{cases}$	3+4+1=2	
(24+43=02	7=-2	
30) am = 30 m-1 + 10	an-2 a0-5	01=11
x2-3x-10		
0=9-4.1(-10)=49		
x= 3 ± 7 x > 5	3	
x,=-7		
		4
C1.5" + C2 (-2)" :	large	
	•	
m=0 + C1+C2=5	m=1= 5C1 -2C2	
$\int c_1 + c_2 = 5$ (02)		
(Sc) -2C2=11		
12c1 + 2(5 = 10	, il., Oraș,	
501-202=11		
701=21	3.5"+2(-2)"	· Canerida Co
C1=3 C2=2		
lan/Ene Fey/Feb Mar/Mar	Abr/Abr Mai/Mayl Jun/Jun Liul/Jul	Ago / Ago Set / Sep Out / Oct Nov / Nov Doz / Dio

S/L T/M Q/M Q/J S/V S/S D/D

```
00=9 01=13
b) an= 4an-1 +21 an-2
x2 - 4x - 21
N=16-4(1)(-21)=100
    C1.7 "+ C2 (-3)" : gral
x = 7
x'=-3
m=0
9 = C1 + C2
                  7C1 + 3C2 = 13
 Cz + Cz = 9 (3)
 7C2-3C2=13
 3 C2 + 3 C2 = 29
 17C1-3C2=13
 10CT = 40
   C1=4 C225
                    4.7 - 5 (-3) = : explosice
c) an = 3am-, -2am-2 do=5 d1=8
x^2 - 3x + 2
                       x,= 5 x,=1
 C1:2" + C2.1" : geral
  C1 + C2 25 (-2)
 261+62 = 8
 -24-2622-10
 261+62: 8
 - C2 = -2
                  3.2 + 2.1 " experience
```

	1 -0 0 -3	do = 2		The second secon
x2-5x+6		511	3 \ \ \ \	good: C1.3m+ C2.2m
7: 52-4.7.	6 = 7	X 2 2 X	z 3 × 2 1	goray: 1 3 . C2 2
			1 00	x
CT + C3 =		explujico	: 4.3 -2-2	· ·
JCT + 5C3 =			k, a	
-20,-20,	= -4			
301 +505	= 8			
C1=4	C2=-2			
			723-30	
)a_= 3a_	-1 - an-2	0=0	01=1	
x2-3x +1				
N = 9-4.1.	1 = 5	1 3+15	x" 3-75	,3
			2	
C /3.	TE) C.	12 E/C.		
mar. 31	2	$\left(\frac{3-\sqrt{5}}{2}\right)^{C_2}$		
C1 + C2	7 0	C	1 - 1 3 - 1 1 - VI	•
3+45 61 + 3-	V5 C2 2 1	C12-02		
2	3-45 Co =			
-375 (2 =1				
C 1				Y STATE OF THE STA
122 75				
C22 75				
2				
C1=-15				
5				
esperíjus: -	V5 (3+V5)~	1 - 15 (3-15	m	
	5/2/	5/2)	
1 - 161		anger in the State of Health		
li je le	ov/Feh Mar / Mar At	r/Abr Mai/May Ive /	tel traverte	/ Sep Out / Oct Nov / Nov Dez / Dic 21 22 23 24 25 26 27 28 29 30

Van=5an-1 -3am-2	100=0 01=1			
$x^2 - 5x + 3$				
D= 25-4-1.3 = 13				
x'= 5+ \(\ta\) x"= 5-	V13 good C1. (5+V13) + C2 (5-V13),			
2	2 (2)			
C1 2 - C2				
-C2 (5+ \(\ta\) + C2 (5-	VI3)=1			
2	2)			
C2 (-5- \(\bar{13}\) +5- \(\bar{13}\):	1			
2 2/	2-8 , 200-1 6 2 2 3			
C2(- 1/3) =1	$ \sqrt{13}\left(5+\sqrt{13}\right)^{m}+\left(-\sqrt{13}\right)\left(5-\sqrt{13}\right)^{m} $ especifico: $13\left(2\right)\left(13\right)\left(2\right)$			
$C_2 = -\frac{\sqrt{3}}{13}$ $C_{12} = \frac{\sqrt{3}}{3}$	3 explique: 13/2/13/2/			
4a) a = 6 a = 1 a o	= 5			
1 (x/2 X-6				
X=6 S=C1.6	O THE COUNTY OF			
an= C1-6" C1= 5	als 5 al 25.6m			
	T= C1. T + C5.0.1			
b) an= 7an-1 a0=5	1 × C3			
×-7 =0	W + 1			
× 2 · 7	8= C1.5 + C3.7.5			
$a_m = C_1 \cdot \gamma^m \qquad C_1 = 5$	a = 5.7 ~			
A. C. Santana				
c) a = 4 a = 1 - 4 a = 2	00=7 01=6 8=C1.5 + C5.1.5+			
x2 - 4x +4	$C_1 = 1$			
D= 16-4.1.4=0	5CT + 3C=8			
x = 2	5+5C3=8			
geral: C1.2" + C2:m.2"	C5=3 5 + 3 m 5 m			
	E PER LOC 18 LANGE 198 LANGE POR PROPERTY			
Jan / Ene Fev / Feb Mar / Mar Abr / Abr Mai / M 01 02 03 04 05 06 07 08 09 10 11	ay Jun/Jun Jul/Jul Ago/Ago Set/Sep Out/Oct Nov/Nov Dez/Dic 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			
	20 21 22 23 24 25 26 27 26 37			

```
d) am= 10 am-1 - 250 m-2
                         Do = 2 PI= 15
x2-10 x + 25
N= 100-4-1-25 =0
                      C1 = 2
                      501 +502 = 15
X = 10 = 5
                      C1 + C2 = 3
multiplicidadeza
                      2 + 62 = 3
                       C221
                                 2.5"+ ~.5"
glal: C1.5" + C2.m.5"
5a) a = 10 a - 32 a - 32 a - 32 a - 3 = 18 a = 76
 x3-10x2+32x-32
 Por testatios, una dos raijes é o munero 2
 x3-10x2+32x-32
                x2+8x+16
 x3+2x2
  -8x2+32x
                 D= 64-4.1.16 =0
                                  (x-2)(x-4)^2
    8 x2 - 16 x
                X 2 8 2 4
        16 x - 32
        16x-32
                                   an= (1.2" + (c2+C3m)4"
                                   am = 2 "C1 + 4 "C2 + 4" C3
              m=0
              3C1 4C 16
 C1 + C2 = 5
  2024 R. + 1 (C.)
 MET 186- 1
 2016+4/00+403=18 + 01+200+200=9
 m = 2 1/0
 4C1 + 16C2 + 32C3=76 - C1 + 4C2 + 8C3 = 19
```

|S/L|T/M|Q/M|Q/J|S/V|S/S|D/D|

[S/L T/M Q/M Q/J S/V S/S D/D]
$\begin{bmatrix} 1 & 1 & 8 & & 14 \end{bmatrix} \begin{bmatrix} 1 & 2 & & 2 & & 14 \end{bmatrix} \begin{bmatrix} 1 & 0 & & 2 & & 14 \end{bmatrix} \begin{bmatrix} 1 & 0 & & 2 & & 14 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 & 2 & & 3 & & 14 \end{bmatrix} \begin{bmatrix} 1 & 2 & & 14 \end{bmatrix} \begin{bmatrix} 1 & 0 & & 2 & & 14 \end{bmatrix}$ $\begin{bmatrix} 1 & 1 & 2 & & 14 \end{bmatrix} \begin{bmatrix} 1 & 2 & & 14 \end{bmatrix}$
$\begin{bmatrix} 0 & 0 & 1 & & 1 \\ 0 & 1 & 2 & & 4 \\ 0 & 1 & 2 & & 4 \\ 0 & 0 & 1 & & 1 \end{bmatrix} $
Dam= 9am-1 -27am-2+27am-3 ao=5 a₁=24 a2=117
$x^3 - 9x^2 + 27x - 27$
Por testativo, una das viaiges é o 3
x3-9x2+27x-27 Lx-3 Raiz de polirârio corocterístico = 3
-x3+3x2 x2+6x+9 multiplicidade = 3
$-6x^2+27x$ $\Delta = 36-4.1.920$ $(x-3)^3$
$+6x^{2}-18x$ $x=\frac{6}{3}-3$
$A_{\times} - 27$ $A_{\times} = C_{1} \cdot 3^{m} + C_{2} \cdot m \cdot 3^{m} + C_{3} \cdot m^{2} \cdot 3$
-9x+27
0
m=0 + C1=5
m=1 - 3C1 +3C2 +3C3 = 24 - C1 + C2+C3 = 811 - C2 + C3 = 3
m=2 - 9C1 + 18C2 + 36C3=117 - C1+2C2+4C3=13 - 2C2+4C3=8 - C2+2C3=4
$\begin{bmatrix} C_2 + C_3 = 3 & (-1) \\ a_{m2} & 5 \cdot 3^m + 2 \cdot 3^m \cdot m + 3^m \cdot n^2 \end{bmatrix}$
(C2+2C3 = 4 am = (5+2m+m2)3m
$\int -C_2 - C_3 = -3$
C2 +2C3=4
C3 21
$C_2 = 2$

6) a) x = 5 x m = 1 + 1 x m = 2 (x2)
nm42 = 5 nm+1 + 7 nm (-1/nm)
$n^{m+2} = Sn^{m+1} + n^{m}$
$\frac{1}{n^m}$ $\frac{1}{n^m}$ $\frac{1}{n^m}$
$n^2 = S_n + t$
2C - 3 R + D
cono zn= an, logo m=2, logo:
an= 5 an-2 + tan-2
$a_2 = Sa_1 + ta_0 = Sn + t$
L) .)
(b) i) $s = 2\pi$ $a_m = 2\pi a_{m-1} - \pi^2 a_{m-2}$ $+ - 2$ PA $+ (+ - xx) - x^2 2\pi x + \pi^2$
t=-12 Polinganio característico: D(X)= X2-251X+522
Co
Camo or er una rois multiple da equação de 2º grave, logo, m=2
$(x-\pi)^2$
$x^2 - 2\pi x + \pi^2$
ii) 0 = m x m (mrl) + (mrl) m-2 1
$m 3t^{m} = S(m-1) t^{(m-1)} + t^{(m-2)} t^{m-2}$
$m\pi^2 = S(n-1)x + t(n-1)$
$mn^2 = 2n(m-1)n - n^2(m-2)$
$mn^2 = 2mn^2 - 2n^2$
지어에서 어린 사이에는 집에게 회사되었다면서 그 사회에서 있는 것이다. 그는 그렇게 하면 생각이 되는 그는 가장이 되었다는 그리겠다면 하게 되었다면서 되었다면서 없는 것이다. 그는 그리