Aplicatio la valori n' vectori poplio Anne 1 20 ai unei a pricatio la mathe definit prince.

Prablema 1 Fre aperatolul & : 12 - 1 12, definit prince. #(x1, x2, x3) = (-x1+3x2-x3, -3x1+5x2+x3, -3x1+3x2+x3)

wnde (x1, x2, x3) e V = 123. in lasa con enione mathiera A, a saciato aperatoruluit in hata canomica a limi IR.

b) for se determine polinomme calacteristic al methice it; If () = det (A -) is)

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es sa re calculete Ar, nelli. a) f(R1, Re, R3) = (-+1+3×2-+3, (-3×1+5×2+×3, -3×1+3×2+×3) a) $f(R_1, R_2, R_3) = 1$ $= \begin{bmatrix} -1 & 3 & -1 \\ -3 & 5 & 1 \end{bmatrix} \cdot \begin{bmatrix} R_2 \\ R_3 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -3 & 5 & 1 \\ -3 & 5 & 1 \end{bmatrix} \cdot \begin{bmatrix} R_2 \\ R_3 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -3 & 5 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -3 & 5 & 1 \\ -1 & 3 & -1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -1 & 3 & -1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -1 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix} -1 & 1 & 1 \\ -3 & 3 & 1 \end{bmatrix} \cdot \begin{bmatrix} A = \begin{bmatrix}$ $= \begin{vmatrix} 2 - 1 \\ 2 - 2 \end{vmatrix} = \begin{vmatrix} 2 - 1 \\ 2 - 2 \end{vmatrix} = \begin{vmatrix} 2 - 2 \\ 2 - 2 \end{vmatrix} = \begin{vmatrix}$ =(2->) ((2->)(1->) -6]=(2->) (x²-3)-4)
3±5

valante praprie munt male n' distinute, aux metalie playlin sunt limat unde fendents. 3 -1 0 ~ (-3 3 -1 0) ~ (-3 -6 Hec. ph: 41, 43 Hec. Sec: X1 = d, x C/k. N (0 1 0 0 0) J-3×9-+3=-3d)-3 [-3×1=-3d]:-3 [x,=d]

x3=0)-3×9-+3=0 | x2=d | x3=0 | x File >2 =-1 = 1 = 1 = (Re) : LA (A-) = 03 $\begin{bmatrix}
0 & 3 & -1 & 0 \\
-3 & 5+1 & 1 & 0
\end{bmatrix}
\begin{bmatrix}
0 & 3 & -1 & 0 \\
-3 & 5 & 1 & 0
\end{bmatrix}
\begin{bmatrix}
0 & 3 & -1 & 0 \\
-3 & 3 & 2 & 0
\end{bmatrix}
\begin{bmatrix}
-3 & 3 & 2 & 0
\end{bmatrix}
\begin{bmatrix}
-3 & 3 & 2 & 0
\end{bmatrix}$ ~ 6 1 10 | -3 6 1 10 | 6 0 9 10 | 6 0 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 | 6 0 |

S41 -43 =0 E = $\sqrt{\frac{1}{2}} = \frac{1}{3}$ = $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ = 1/2 - (3) (A+)=-1 | x3 = x (1=4) (-1-4) (x/x2 = (0) ; (-3 3 -1 0) / (x/2) = (0) ; (-3 3 -3 0) / (-3) $\begin{cases} x_{1} - x_{3} = 0 \\ x_{2} = 2x_{3} = 0 \end{cases} > \begin{cases} x_{1} = 0 \\ x_{2} = 2x_{3} = 0 \end{cases} > \begin{cases}$ (2) Vet preprin alle matricci A smort reall n' dis-fincte = s vectorii proprie sunt limiter = s ei farmense a basa in R' in a veasse base ve farmense a faciate apelabalistic of are Jahna matricca a faciate apelabalistic of are Jahna Legarate, matrices de trecer de la lasa canamier la lonsa falurate d'in nectolis Maplin are je calacimele sale cer trei nectore plessée: T= (V1, V2, V3) = (1 3 1). In decerse hase, Q'= { V1, V2, V3), mathiera a facial aptécutéer armane fair fahre diagrane le :

B = T - 1. A. T = (0 - 1 0)

calculairen T - 7 calculainer 7-1 en organt uml lui ceanen.