Be: braçondère A: (5).

A is triangular so its only exercative is \$25.

125: A-SI, (0)

g is free

Pg = 0

\$ (B) P(0)

Since we canof generate an eigenvector bases for the

A is not diagonalizable.

Ep: Gregorelise Ar (41).

A-7I, [2-7 3]

det (A-AI)= (2-A)(1-A)-12-24-32-10-(A-5)(2+2)
det (A-AI)=0=> 2-5, 2-2

2-5: A-5I2 (4-4) [1-1] [00] Resture

\$\frac{1}{2} \left[\frac{1}{2} \right] \cdot \frac{1}{2} \right[\frac{1}{2} \right] \right] \right[\frac{1}{2} \right] \right] \right[\frac{1}{2} \right] \right] \right[\frac{1}{2} \right] \right] \right] \right[\frac{1}{2} \right] \right]

12-1: A+DI2 (43) [13/2/2-3/2 21-1: A+DI2 (43) [13/2] (00) 82 15 free

 $\mathcal{A}^{2}\begin{bmatrix}1-37\\14\end{bmatrix}$

Ep: fregoralite A= 2 4 2 witherenaluer 1=2, 1=8. 721: A-212 [222] ~ 000 {\vartheta, \vartheta\}? 28: A-8I2 [2-4 2 1 0 0 -1 4 2 2-4 2 0 0 0 0 0 2 (×3 / 2) √3 / 2) √3 / 1

A2 (-1 -1)

to! Diagonalite Az 25 4 with eigenvaluer 125, 124. 125; A-SI (2000) [000) \$ - (B) 1 P2 () + B3 () {\(\frac{1}{2}\),\(\frac{1}{2}\)} 129: A-4I2 00-27 1 3 0 0 1 D2 (8) 2 (-3 8) 2 (-3) (-3) (-3) (-3) (-3) (-3) Sr 0 5 0 9 P2 0 0 1 0)

Ep: Grasonalize Az (-1 0 -3) with exercises 122, 121. 121: A-I2 (-1-4-67 N 0 1 1) P2 (8) [-27] 27 [-27] [-27] [-37] [-2-2-1 A-2I2 (-2-4-67~ 1 2 3) ρ2 (8)2 (-24) -24) -27 + 13 (0) (1) $P_{2}\begin{bmatrix} -1 & -1 & -3 \\ -1 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix}$

Pi (301)

5-3

the matrix D is transmiler = its eigenvalue are 124 and 122.

2-7: A-2I2 (2000) NOOD (000)

J. (0000)