

For Ey to be 2-4 mensional, we need A-45 to have 2 free variables. Hence we need h=-3

$$\begin{bmatrix} -1 & 0 - 2 \\ 1 & 0 & 2 \\ 0 & 0 & 0 \end{bmatrix} \times \begin{bmatrix} 1 & 0 & 2 \\ 0$$

$$E_3 = Span \begin{bmatrix} -2\\0\\1 \end{bmatrix}$$

So A is similar to 
$$\begin{bmatrix} 2 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 3 \end{bmatrix}$$
 via  $\begin{bmatrix} 1 & 2 & 0 \\ 0 & 1 & 0 \end{bmatrix}$ .

$$P_A(x) = (1-x)^2$$
, so  $n=1$  is only eigenvalue.

$$A-1\cdot I = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$
, so  $f = \begin{cases} \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix} \end{cases}$ 

Henrie Ais not dragonal-table.

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