Wednesday, October 6, 2021 4

Revision

(1) Find the sum and product by the eigen Unker by $\begin{bmatrix} 7 & -2 & -\frac{1}{2} \\ -2 & 1 & 4 \\ -2 & 4 & 1 \end{bmatrix}$ Ans 9, -81

(2) If
$$\lambda_1 = 3$$
, $\lambda_2 = 15$ then find λ_3

If $A = \begin{bmatrix} 8 & -6 & 2 \\ 6 & 1 & -4 \\ -2 & 4 & 1 \end{bmatrix}$

Any -2

Find the sum of the squares of the ANS 38 again values of A = [3 24] 0 26]

(4) If 1,1,5 are the eigen trabes of $A = \begin{bmatrix} 2 & 3 & 1 \\ 1 & 3 & 1 \\ 1 & 2 & 2 \end{bmatrix}$ Find the eigen that of $A = \begin{bmatrix} 2 & 3 & 1 \\ 1 & 3 & 1 \\ 1 & 2 & 2 \end{bmatrix}$

Find the sign llater and seigen Muthers

$$A = \begin{bmatrix} 2 & -1 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & -1 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 \\ -8 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 \\ -8 & 4 \end{bmatrix}$$

b)
$$A = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 1 & 0 & 2 \end{bmatrix}$$
 And

c)
$$A = \begin{bmatrix} 2 & -2 & 2 \\ 1 & 1 & 3 \\ 1 & 3 & -1 \end{bmatrix}$$

6) If A and B are Dr Hogenal matrice lten there product is also

1 Write the characteristie equation

$$A = \begin{bmatrix} 1 & -2 \\ -5 & 4 \end{bmatrix}$$

(8) Find the constant a and b Much that

[a4] matrix has 3 and -2 as its eigen Kalms.