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$$\frac{128}{16384} - (0)(0)$$

$$= (128)(128) - (0)(0)$$

(1) $M = \begin{bmatrix} 128 & 0 \\ 0 & 128 \end{bmatrix}$

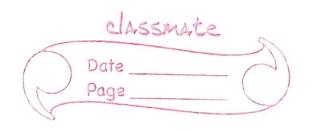
To find eigenvalues, find roots of the equation det (M-II)=0

 $det \begin{bmatrix} 128-2 & 0 \\ 0 & 128-2 \end{bmatrix} = 0$ $=) (128-2)^{2} = 0$ $=) \lambda_{1} = \lambda_{2} = 128$

=> Sum of the Eigen Values = $\lambda_1 + \lambda_2 = 256$

(13) Harris Ranking Score

 $R = \det(M) - k \cdot tr(M)^{2}$ $\det(M) = 16384$ tr(M) = 128 + 128 = 256 $tr(M)^{2} = 65536$ =)R = 16384 - k(65536)



$$k \in [0.04, 0.06]$$

... Let $k = 0.05$ (say)

$$=$$
 $R = 13107.2$

$$R = \min(\lambda_1, \lambda_2) = [128]$$