Assignment -1

hestericted isometery constant -> So all columns of A> unit normalized.

Considering any x.

such that the supposet of x be 8.

Now As denotes columns corresponding to indices in x for which x; +0.

size of As = mxs

now 11 A 2112 = 11 As 25112 \$

Now, consider the matrix ASTAS.

By greeshgoein tresseem, leigen values are bounded.

diagonal entries = 1 and max value of non-diagonal entries = u(A)

x Till is a life auton Alterdi

: As TAS (ii) = <A(i), A(i)>

[1-1] ≤ (3-1) U(A) → D

Now, by notes we know $S_8 = max (1-\lambda min, \lambda max^{-1})$ $= |\lambda - 1| = 0$

By (1) & (8-1)