EASS96 #6 Matchew Sah.

Ax = b QRx = b Q

E) 5UD

A=A StA Ob

For lease square estimation

we x with smallest |x|2 such that bis in

the range A

X minimizes R=[Ax-b]

$$A = \begin{cases} 0 & 1 & 1 \\ \sqrt{2} & 2 & 0 \\ 0 & 1 & 1 \end{cases}$$

$$= \lambda AA^{T} = -\lambda^{3} + 10 \lambda^{2} - (1 \lambda) = -\lambda (\lambda^{2} - 10 \lambda) + (16)$$

Singular values are 252, its. O.

for
$$\lambda > 8$$
, eigenvactor = (1.2.1)

$$-7P = \left(\frac{1}{16}, \frac{3}{16}, \frac{1}{16}\right)$$

$$\lambda = 2 - 4 R_{2} = \left(-\frac{1}{13}, \frac{1}{13}, \frac{-1}{13} \right)$$

UB. Prog -0 50. At rank 10 others is still obvious noise in the photo, withouther the white not so white but at 50 this issue is solved.

futuramer, pry -7100

Below the most completed photo of the set (most colored), it reached minimum rank at Ice, at 50 there was still easily nother note all crewnly

Square > 2.

Since the photo is mainly black. It's net to difficult to such minimum rank. at rank: I, there are printary printed one of the original box, for rank 2, the box becomes a solid square with nothing poliny on-t