- Tema 1 MN -

Task 2

2.1.

Am descompus matricea A cu SVD si stim ca S are valorile singulare pe diagonala, deci am dat plot de acel vector construit din valorile de pe diagonala.

2.2.

Am implementat formula data in enunt.

2.3.

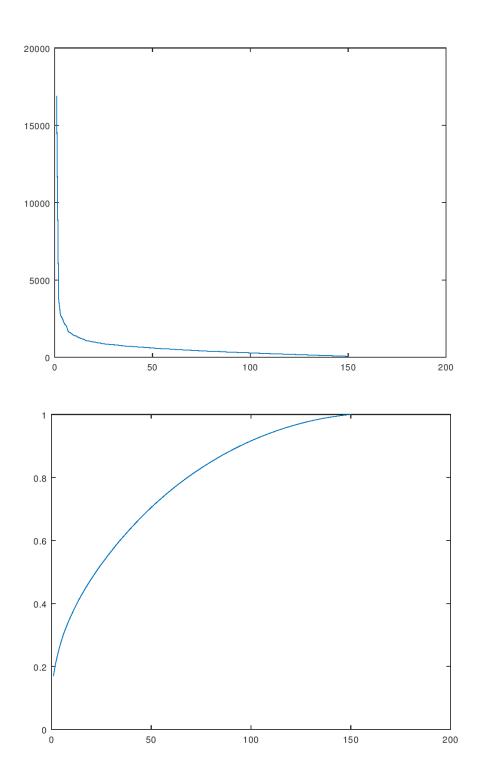
Am creat un vector al erorilor implementand formula data in enunt.

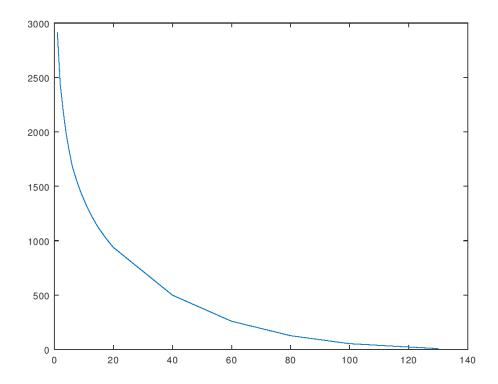
2.4.

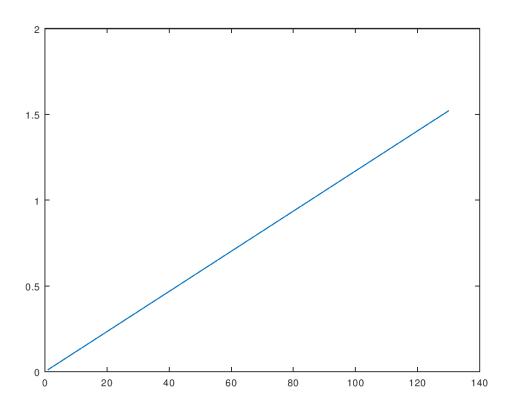
Plot de formula data in enunt.

(Am folosit k-uri diferite la task-uri pentru a observa ca nu este vreo diferenta in alegera sa)

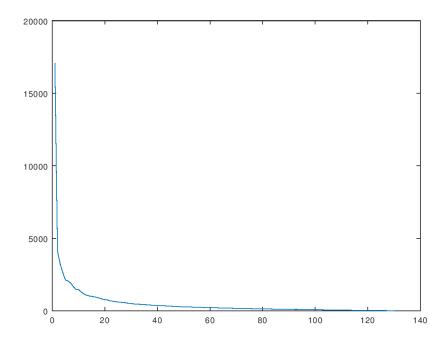
Pentru imaginea 2 (image2.gif)

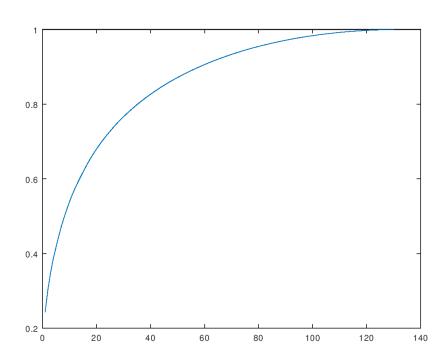


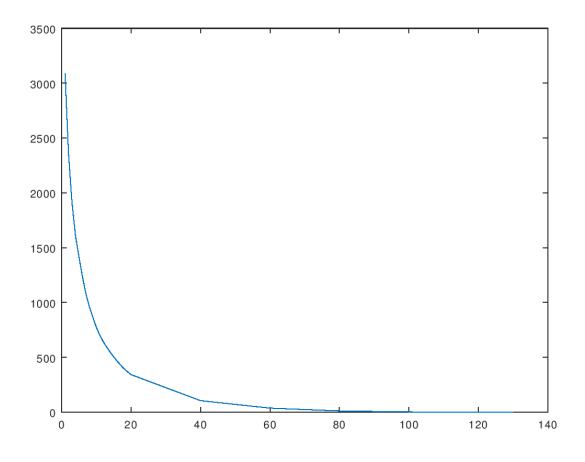


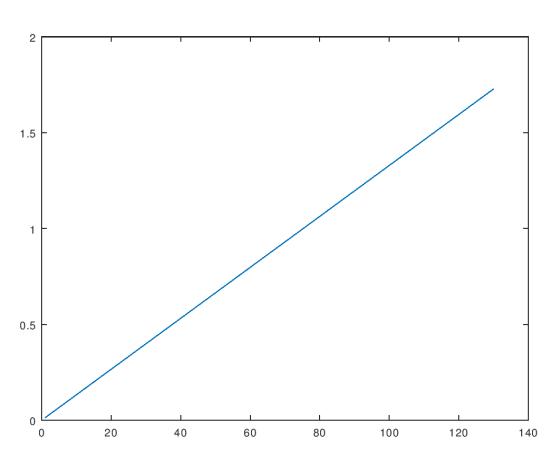


Pentru imaginea 3 (image3.gif)









Task 5

5.1.

Am descompus matricea A cu ajutorul taskului 3 in A_k si S, si dam plot de valorile de pe diagonala matricei S.

5.2.

Am implementat formula data in enunt.

5.3.

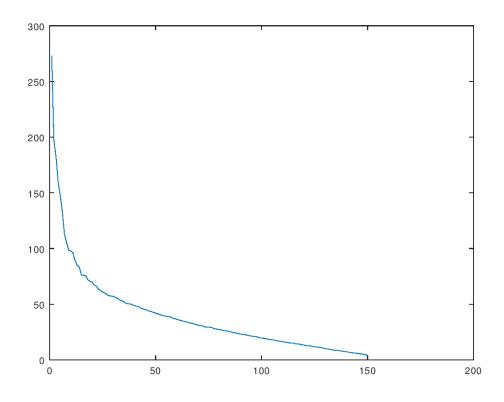
Am creat un vector al erorilor implementand formula data in enunt.

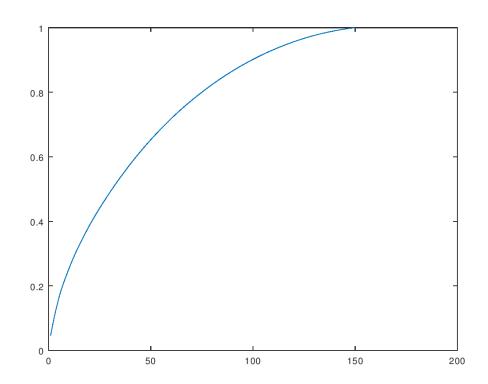
5.4.

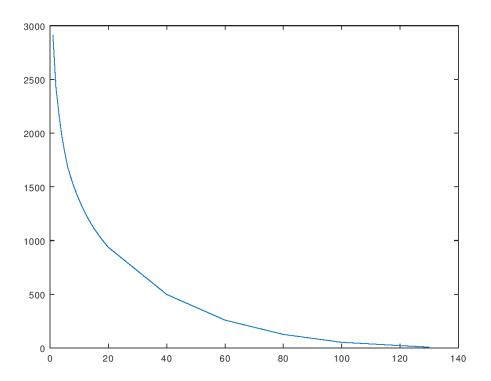
Plot de formula data in enunt.

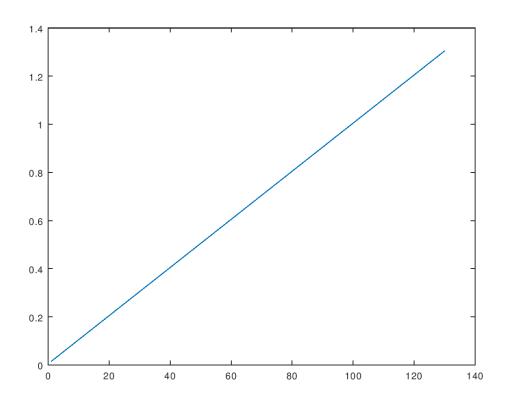
(Am folosit k-uri diferite la task-uri pentru a observa ca nu este vreo diferenta in alegera sa)

Pentru imaginea 2 (image2.gif)









Pentru imaginea 3 (image3.gif)

