Untitled - Jupyter Notebook 9/13/21, 10:41 PM

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In [5]: ##Question2
         import numpy as np
         import matplotlib.pyplot as plt
         import scipy.linalg as la
         A=np.array([[2,3,1],[-2,3,-2],[1,-1,4]])
         b=np.array([[12],[1],[16]])
         x = la.solve(A,b)
         print(x)
         [-1.]
          [ 3.]
          [5.]]
In [12]: ##Question3 a
         from numpy.linalg import matrix_rank
         B=np.array([[1,3,1,2,0],[0,0,2,1,3],[0,0,0,3,2],[0,0,0,3,-1]])
         matrix rank(B)
Out[12]: 4
In [11]: C=np.array([[-1,1,0,-1],[-2,2,1,-4],[-1,1,-2,3]])
         matrix_rank(C)
Out[11]: 2
In [ ]:
```