```
THERE IS IN THE NOTES A THEOREM RELATING THE NOITION NUMBER

OF A. RELATIVE RESIDVAL, & RELATIVE ERPOR

CHECK THAT THIS HOOS FOR A = [1.2969 0.2648]

RESULTS ASSENTED,

THE THEOREM?

LET A DE IMENTIBLE A X = 5

EXACT SOLUTION

APPROXIMATE SOLUTION

APPROXIMATE SOLUTION
                                                                                                                                                                                                                                                                                                                                                 e: x - 2 Erron
                                                                                                                                                                                                                                                                                                                                                r= b-A& RESTOVAL
                  THEN \frac{\|e\|}{\|x\|} \le \frac{1}{1}(A) \cdot \frac{\|r\|}{\|b\|}; \frac{1}{1}(A) = \frac{1}{1}(
11 611 = 0.8642
```