meant to be we

2) Find Lond (A)

For the matrix row norms,

$$(\text{ord}(A) = \max_{1 \le i \le n} \sum_{j=1}^{n} |a_{ij}| \cdot \max_{1 \le i \le n} \sum_{j=1}^{n} |a_{ij}|$$

$$|A|| \cdot |A||$$

$$|A|| \cdot |A||$$

Cond(A) = (41) . (411) = 1681

Because he aim to minimze  $\frac{11 \times - \times 11 \times}{11 \times 11 \times}$  the difference between our expected vector norm and our approximated vector norm we would like to have our  $\operatorname{Cond}(A)$  value as near to 1 as possible, a nell-conditioned system. Cond(A) is may larger than 1 and elements of A and A' therefore this system is ill-conditioned, to respect, b, and ba.