

أسئلة تحليل دالي

- ① Let $\|x\|, \|y\|, \|x+y\|, \|x-y\|$ be norms on space X then prove that $\|x\| = \max(\|x\|, \|y\|, \|x+y\|, \|x-y\|)$ norm space (A)
- ② what the relation between norm and metric space
- ③ show that every subspace of normed space is itself normed space
- ④ Let $u, v \in V$ prove that $\|au+bv\| = \|bv+av\|$ iff $\|u\| = \|v\|$
 $a, b \in \mathbb{R}$