Poll Results





## Metric spaces: Which *p*-norms are induced?

**Question #1** For  $p\geq 1$ , the p-norm on  $\mathbb{R}^n$  is

$$\|x\|_p = \Big(\sum_{i=1}^n |x_i|^p\Big)^rac{1}{p} \;.$$

Which p-norms are induced by an inner product?

(A) p = 1;(B) p = 2;(C)  $p \in \mathbb{N};$ (D) p an even integer  $\geq 2;$ (E)  $p \in [1, \infty) \cap \mathbb{Q};$ (F) all  $p \geq 1.$ 

