



NORM METRICS

Why

If we have a norm, then we have a metric.

Motivating Result

Let R be the set of real numbers.

Prop. 1. *Let (V, F) be a vector space. Let $f : V \rightarrow R$ be a norm. Let $g : V \times V \rightarrow R$ such that*

$$g(x, y) = \|x - y\|.$$

*Then g is a metric.*¹

¹Future editions will include an account.

