

Trevor Klar

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My favorite theorem is the generalized Pythagorean Theorem, stated below.

Theorem. *Let v_1, v_2, \dots, v_n be orthogonal vectors in an inner product space. Then*

$$\sum_{i=1}^n |v_i|^2 = \left| \sum_{i=1}^n v_i \right|^2$$