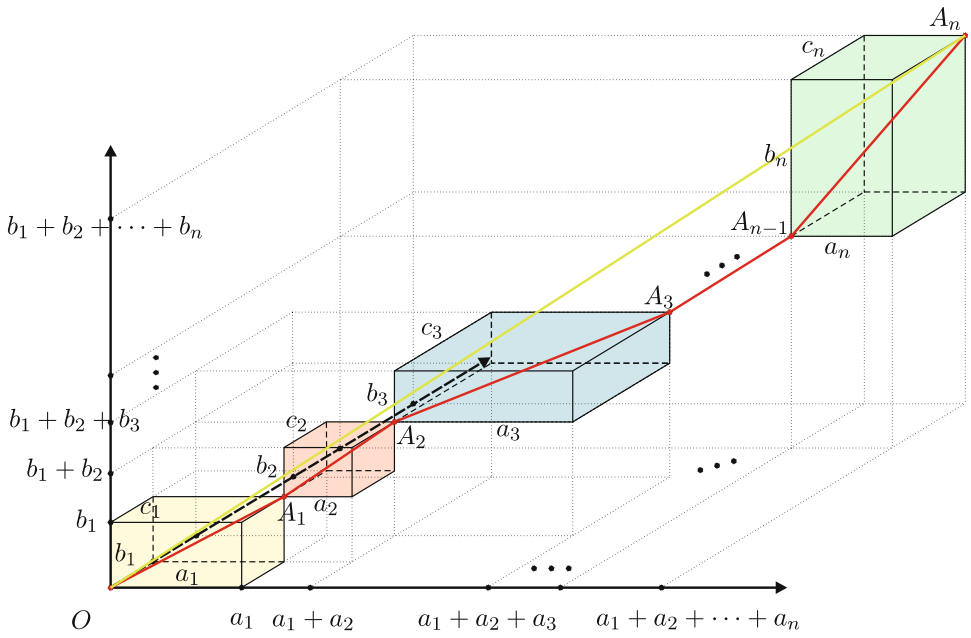
Note

Proof without Words: Inequality for the Sum of the Diagonals

Nenad Stojanović

$$\sqrt{a_1^2+b_1^2+c_1^2}+\sqrt{a_2^2+b_2^2+c_2^2}+\sqrt{a_3^2+b_3^2+c_3^2}+\cdots+\sqrt{a_n^2+b_n^2+c_n^2}$$
$$\geq \sqrt{(a_1+a_2+\cdots+a_n)^2+(b_1+b_2+\cdots+b_n)^2+(c_1+c_2+\cdots+c_n)^2}.$$



Nenad Stojanović
Faculty of Science
University of Kragujevac
Kragujevac
Serbia
e-mail: nenad.s@kg.ac.rs

Published online: 01 June 2021
https://doi.org/10.1007/s00283-021-10075-9