

Superposition @math

[@wikipedia.org](https://en.wikipedia.org)

A specific property of a given [function](#):

$$(1) \quad F(a_1 \cdot x_1 + a_2 \cdot x_2) = a_1 \cdot F(x_1) + a_2 \cdot F(x_2)$$

In general case:

$$(2) \quad F\left(\sum_{i=1}^N a_i \cdot x_i\right) = \sum_{i=1}^N a_i \cdot F(x_i)$$

See also

[Formal science](#) / [Mathematics](#)