Answer on Question #60749-Physics-Classical Mechanics

What is unit of unit vector?

Answer

The unit vector is dimensionless because it is defined as:

$$\widehat{a} = \frac{a}{|a|}$$

where *a* is some vector.

 \widehat{a} has units

$$[\hat{a}] = \frac{[a]}{[|a|]} = \frac{[a]}{[a]} = 1.$$

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