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sessiony: Vector Components

chalkboard:

Components of R along direction it, I'll=1

Components of R along $\hat{u} = |\vec{R}| \cdot \cos \theta \cdot |\vec{u}|$

Components is a scalar (6) ===

Revellings and example

[A]:000: the components of B along i

also called orthogonal projection

(政投影)

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for non-unit, \vec{X} the component of \vec{B} in the direction of \vec{B} : $\vec{A} = \frac{\vec{B}}{|\vec{B}|}$, component of $\vec{B} = \vec{A} + \vec{B}$

Ex: the component of
$$\vec{B}$$
 along \vec{B}

1. $\vec{B} = \vec{i} + 2\vec{j}$, $\vec{B} = 3\vec{i} + 4\vec{j}$,

Component = $\frac{\vec{B} \cdot \vec{B}}{|\vec{B}|} = \frac{3+8}{|7+1|6} = \frac{11}{5}$
 $\vec{A} = (2.2)$

component
$$\vec{A} = \vec{J} \cdot \vec{u} = 2$$

Problems: