Lineare Algebra Semester 2

Vektorgeometrie

Betrag

$$| \vec{a} | = \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \sqrt{x^2 + y^2 + z^2}$$

Skalarprodukt

$$\vec{a} \cdot \vec{b} = \begin{pmatrix} a_x \\ a_y \\ a_z \end{pmatrix} \cdot \begin{pmatrix} b_x \\ b_y \\ b_z \end{pmatrix} = a_x b_x + a_y b_y + a_z b_z$$

$$\vec{a} \cdot \vec{b} = | \vec{a} | \cdot | \vec{b} | \cdot \cos(\varphi)$$

Document classes

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Used at the very
beginning of a document:
`\documentclass{`*class*`}`. Use
`\begin{document}` to start contents and
`\end{document}` to end the document.