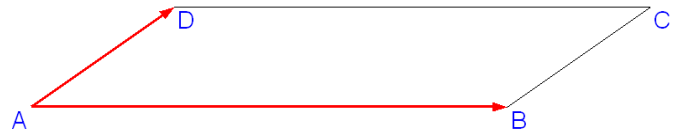


## Flächen- und Volumenberechnungen

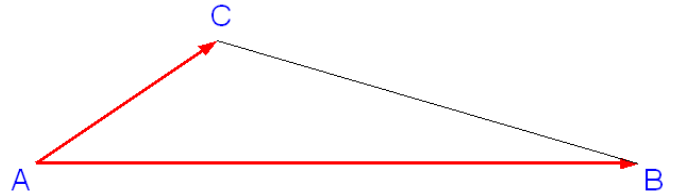
### Parallelogrammfläche

$$A = |\vec{AB} \times \vec{AC}|$$



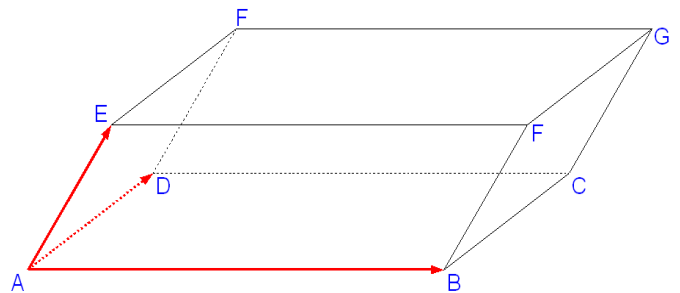
### Dreiecksfläche

$$A = \frac{1}{2} |\vec{AB} \times \vec{AC}|$$



### Spatvolumen

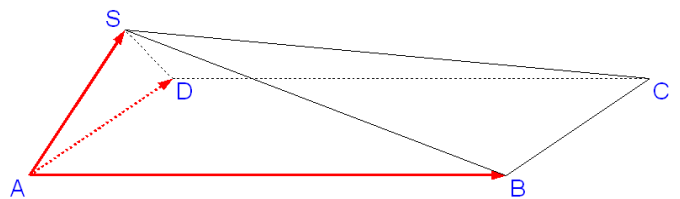
$$V = |(\vec{AB} \times \vec{AD}) \cdot \vec{AE}|$$



### Pyramidenvolumen

*viereckige Grundfläche*

$$V = \frac{1}{3} |(\vec{AB} \times \vec{AD}) \cdot \vec{AS}|$$



### Tetraedervolumen

*dreieckige Grundfläche*

$$V = \frac{1}{6} |(\vec{AB} \times \vec{AC}) \cdot \vec{AS}|$$

