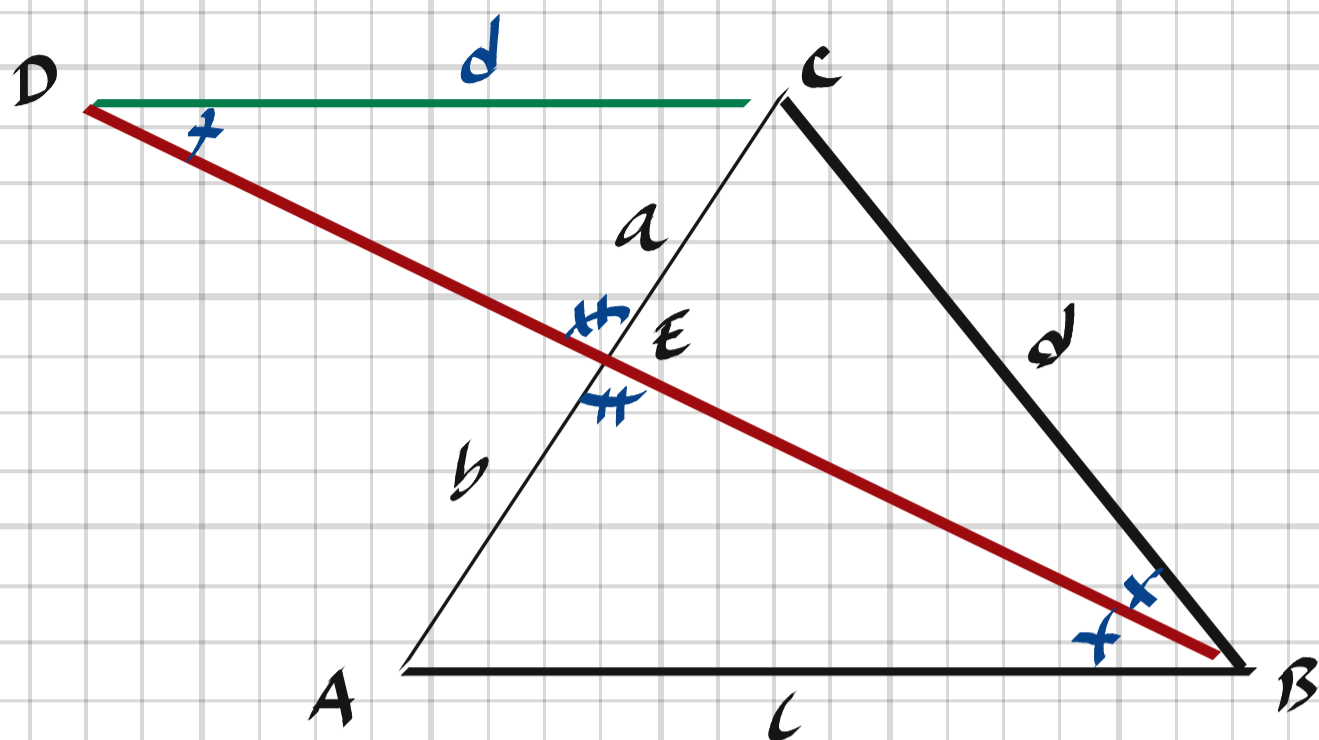


## Bisektrissatsen



$\triangle ABD$  och  $\triangle CD$  alternativvinklar  $\Rightarrow$

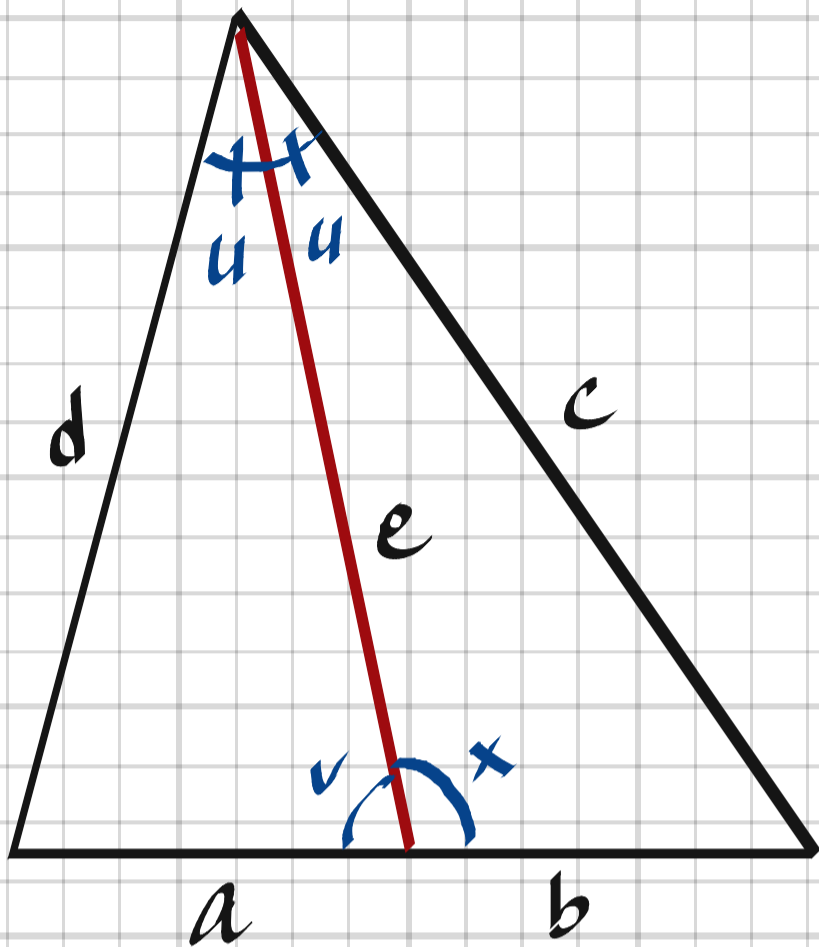
$\triangle BCD$  likbent  $\Rightarrow CD = d$

$\triangle CED$  och  $\triangle AEB$  vertikaltvinklar  $\Rightarrow$

$\triangle CDE \sim \triangle ABE \Rightarrow$

$$\frac{a}{d} = \frac{b}{c}$$

## Alt. basis



$$v + x = 180^\circ$$

$$\frac{\sin u}{a} = \frac{\sin v}{d} ; \quad \frac{\sin u}{b} = \frac{\sin x}{c} \Rightarrow$$

$$\frac{a \cdot \sin v}{d} = \frac{b \cdot \sin x}{c} = \frac{b \cdot \sin(180^\circ - v)}{c} = \frac{b \cdot \sin v}{c} \Rightarrow$$

$$\frac{a}{d} = \frac{b}{c}$$