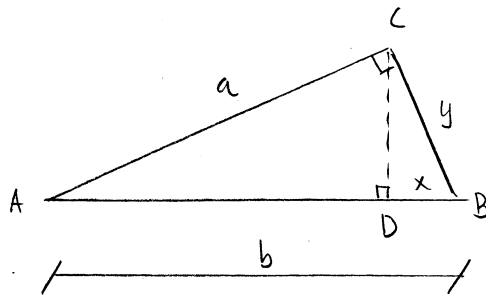


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Låt BC ha längden y . Pythagoras sats i $\triangle ABC$ ger

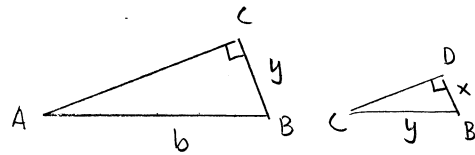
$$a^2 + y^2 = b^2$$

$$y^2 = b^2 - a^2 \quad (1)$$

$\triangle ABC \sim \triangle CBD$ (en vinkel rät, $\angle B$ gemensam). Detta ger

$$\frac{x}{y} = \frac{y}{b}$$

$$x = \frac{y^2}{b}$$



Insättning av (1) ger

$$x = \frac{b^2 - a^2}{b} \quad \square$$