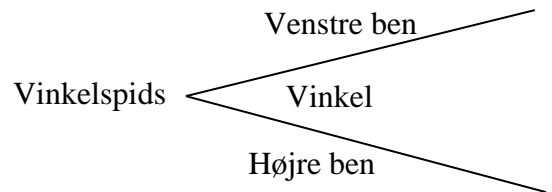


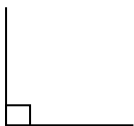
Vinkler:

En vinkel består af en vinkelspids hvorfra to ben udgår som henholdsvis kaldes venstre og højre ben. Vinklen ligger imellem benene og måles i grader °.

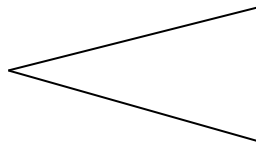


Der findes forskellige typer af vinkler:

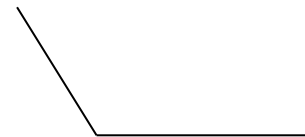
Retvinkel: 90 °



Spidsvinkel: under 90

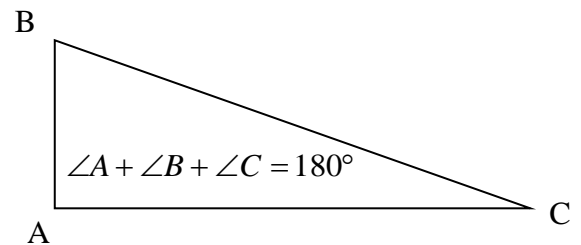


Stumpvinkel: Over 90

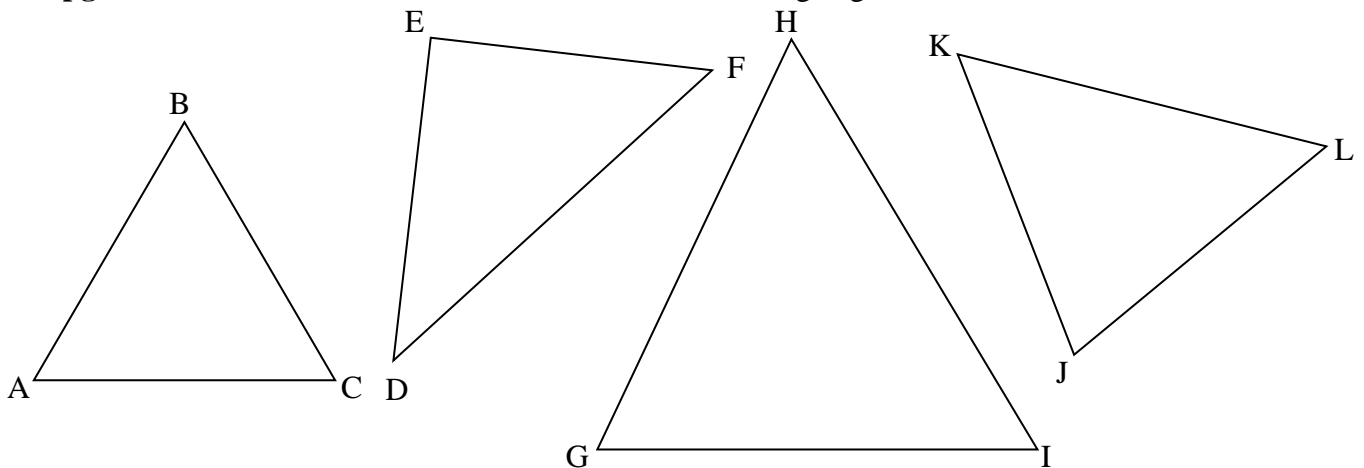


Vinkler i Trekanter:

En trekant består af 3 kanter og derfor også 3 vinkler!
 Hvis man lægger de 3 vinklers grader sammen fås 180 °.
Vinkelsummen = 180° (∠ A+∠ B+∠ C)



Opgave 1: Mål vinklerne i trekanten med en vinkelmåler og læg vinklerne for hver trekant sammen



	Vinkel		Vinkel		Vinkel		Vinkel
∠ A		∠ D		∠ G		∠ J	
∠ B		∠ E		∠ H		∠ K	
∠ C		∠ F		∠ I		∠ L	
Sum		Sum		Sum		Sum	

Facit: 41 49 55 55 55 60 60 60 60 65 70 90

Beregning af manglende vinkel i Trekant:

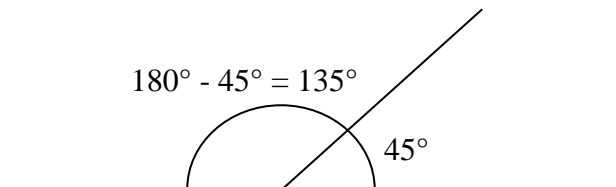
Når man har 2 af de 3 vinkler i en trekant kan man beregne den sidste fordi de alle tilsammen giver 180 °! **NB:** ∠ A kan også skrives ∠ BAC

$$\angle A = 180^\circ - \angle B - \angle C.$$

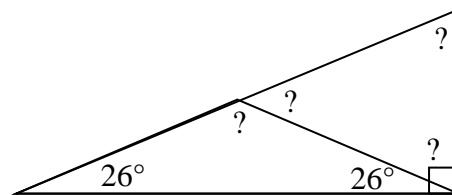
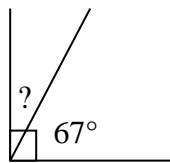
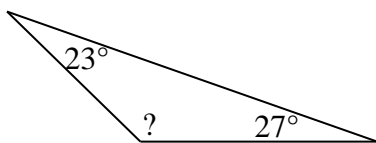
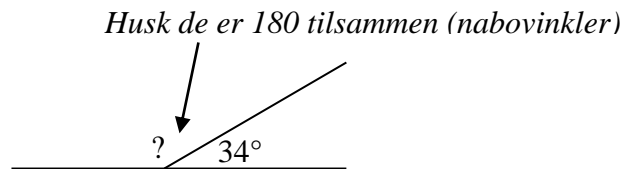
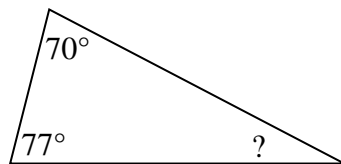
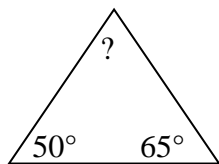
Eksempel: $\angle A = 180^\circ - 20^\circ - 90^\circ = 70^\circ$

Nabovinkler:

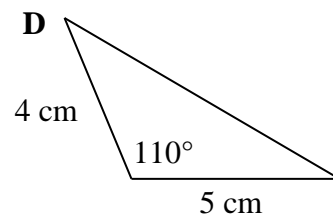
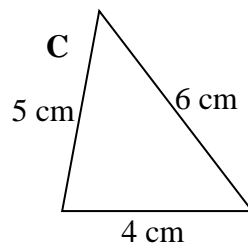
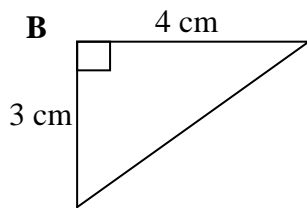
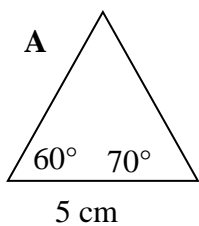
I de tilfælde hvor de to vinkler tilsammen danner 90°, 180° eller 360° kan man beregne den ene hvis man kender den anden. Grunden til dette er, at de tilsammen giver 180° el. 360°.



Opgave 2: Beregn vinklerne i trekantene uden vinkelmåler

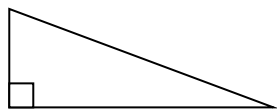


Opgave 3: Konstruer trekantene ved at bruge passer og vinkelmåler.



Forskellige trekanter:

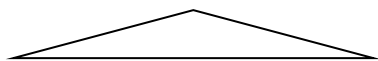
Retvinklet: Trekanten har en ret vinkel



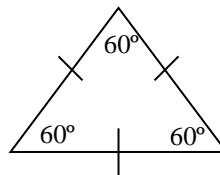
Spidsvinklet: Alle 3 vinkler er spidse.



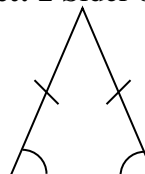
Stumpvinklet: En af vinklerne er stump.



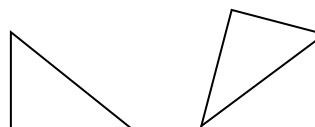
Ligesidet: Alle sider er lige lange



Ligebenet: 2 Sider og 2 vinkler er lige store



Kongruente Trekanter: Ens trekanter



Opgave 4: Konstruer en trekant af hver slags nævnt ovenfor. (passer til Ligesidet og ligebenet)

Ekstra Opgave 1: 2 ud af 5 af landets 2,6 mio. husholdninger beboes af singler (kun 1 person) i 2015.

Hvor mange husholdninger i Danmark er single husholdninger i 2015?