

# Arbeitsblatt

28.07.2013

Kostenlos auf dw-aufgaben.de

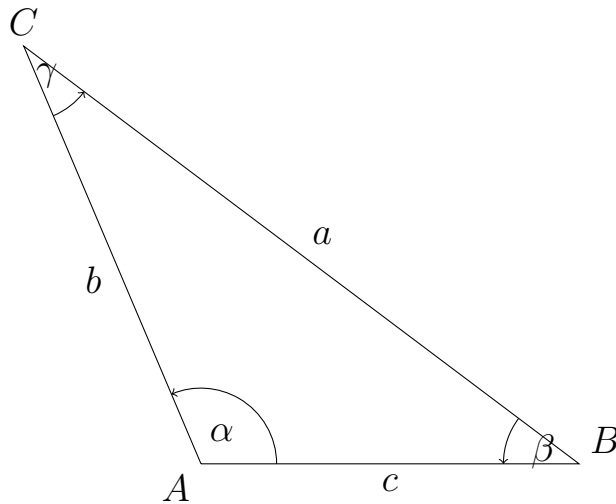
Aufgaben-Quickname: 4652

## Aufgabe 1

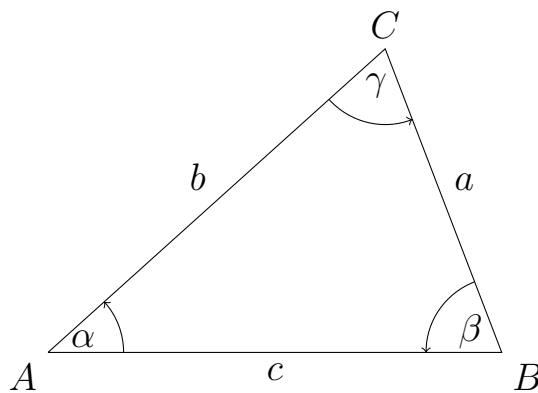
Quick:  
4652

Zeichne das zugehörige Dreieck. Wie groß sind die Winkel  $\alpha$ ,  $\beta$  und  $\gamma$  (messe ab)? Wie lang sind die Seiten  $a$ ,  $b$  und  $c$  (messe ab)?

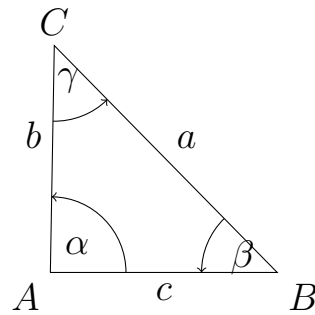
- a)  $\alpha = 113$  Grad,  $c = 5$  cm,  $\beta = 37$  Grad  
 $a = 9,2$  cm,  $b = 6$  cm,  $c = 5$  cm  
 $\alpha = 113$  Grad,  $\beta = 37$  Grad,  $\gamma = 30$  Grad



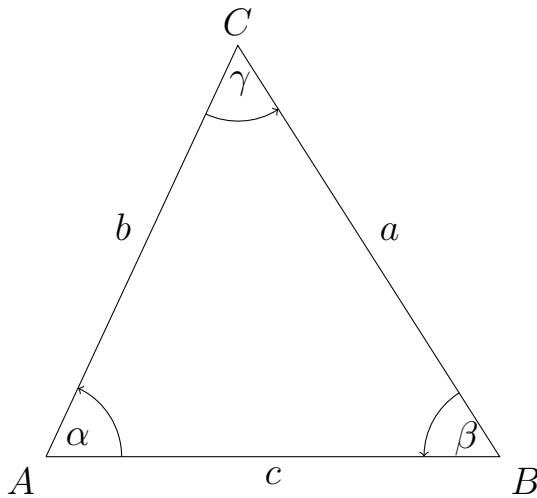
- b)  $\beta = 69$  Grad,  $a = 4,3$  cm,  $\gamma = 69$  Grad  
 $a = 4,3$  cm,  $b = 6$  cm,  $c = 6$  cm  
 $\alpha = 42$  Grad,  $\beta = 69$  Grad,  $\gamma = 69$  Grad



- c)  $a = 4,2 \text{ cm}, b = 3 \text{ cm}, c = 3 \text{ cm}$   
 $a = 4,2 \text{ cm}, b = 3 \text{ cm}, c = 3 \text{ cm}$   
 $\alpha = 89 \text{ Grad}, \beta = 45 \text{ Grad}, \gamma = 45 \text{ Grad}$



- d)  $\beta = 57 \text{ Grad}, a = 6,4 \text{ cm}, \gamma = 57 \text{ Grad}$   
 $a = 6,4 \text{ cm}, b = 6 \text{ cm}, c = 6 \text{ cm}$   
 $\alpha = 65 \text{ Grad}, \beta = 57 \text{ Grad}, \gamma = 57 \text{ Grad}$

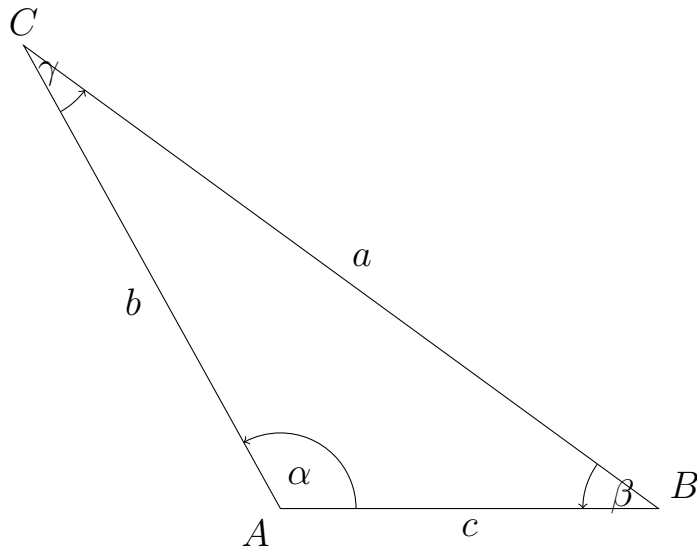


### Aufgabe 2

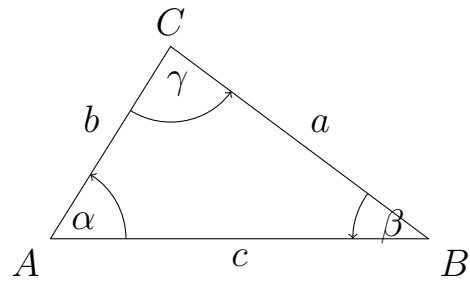
Zeichne das zugehörige Dreieck. Wie lang sind die Seiten a,b und c (messe ab)?

Quick:  
4652

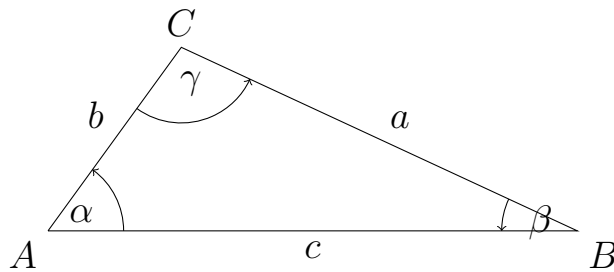
- a)  $\gamma = 25 \text{ Grad}, b = 7 \text{ cm}, \alpha = 119 \text{ Grad}$   
 $a = 10,4 \text{ cm}, b = 7 \text{ cm}, c = 5 \text{ cm}$



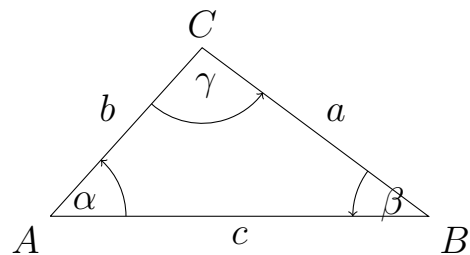
- b)  $\alpha = 58$  Grad,  $c = 5$  cm,  $\beta = 37$  Grad  
 $a = 4,3$  cm,  $b = 3$  cm,  $c = 5$  cm



- c)  $a = 5,8$  cm,  $b = 3$  cm,  $c = 7$  cm  
 $a = 5,8$  cm,  $b = 3$  cm,  $c = 7$  cm



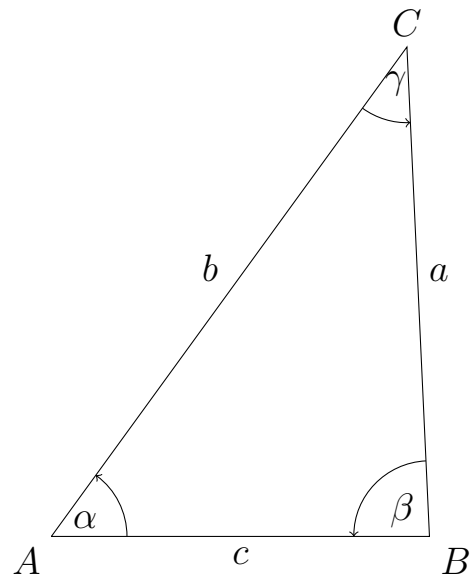
- d)  $a = 3,7$  cm,  $b = 3$  cm,  $c = 5$  cm  
 $a = 3,7$  cm,  $b = 3$  cm,  $c = 5$  cm



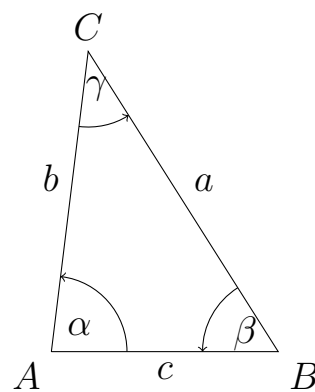
## Aufgabe 3

Quick:  
4652Zeichne das zugehörige Dreieck. Wie groß sind die Winkel  $\alpha$ ,  $\beta$  und  $\gamma$  (messe ab)?

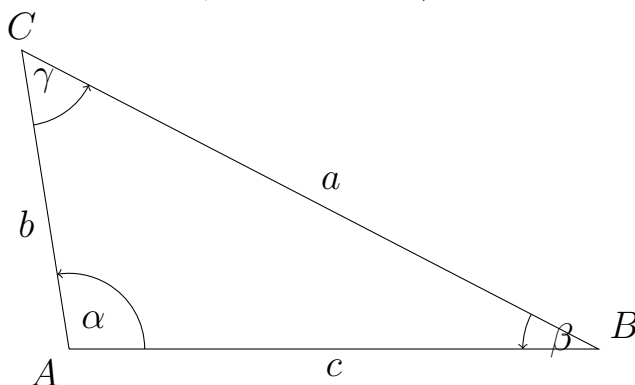
- a)  $\alpha = 54$  Grad,  $c = 5$  cm,  $\beta = 87$  Grad  
 $\alpha = 54$  Grad,  $\beta = 87$  Grad,  $\gamma = 39$  Grad



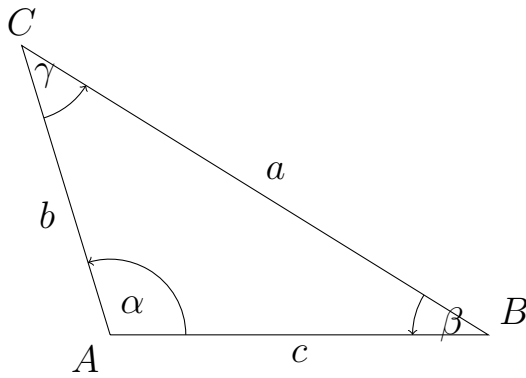
- b)  $\alpha = 83$  Grad,  $c = 3$  cm,  $\beta = 58$  Grad  
 $\alpha = 83$  Grad,  $\beta = 58$  Grad,  $\gamma = 39$  Grad



- c)  $c = 7$  cm,  $\beta = 27$  Grad,  $a = 8,6$  cm  
 $\alpha = 99$  Grad,  $\beta = 27$  Grad,  $\gamma = 54$  Grad



- d)  $b = 4$  cm,  $\alpha = 107$  Grad,  $c = 5$  cm  
 $\alpha = 107$  Grad,  $\beta = 32$  Grad,  $\gamma = 41$  Grad

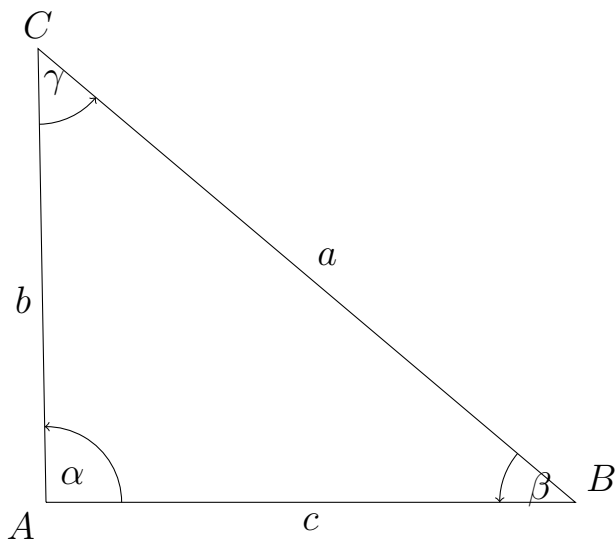


Aufgabe 4

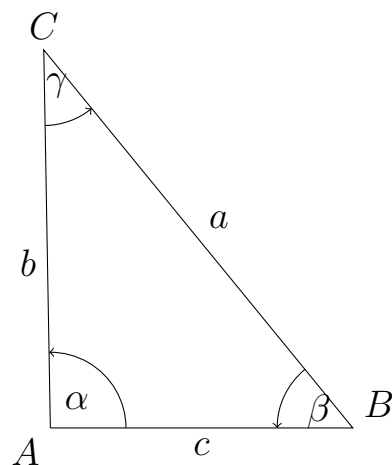
Zeichne das zugehörige Dreieck. Wie lang sind die Seiten a, b und c (messe ab)?

Quick:  
4652

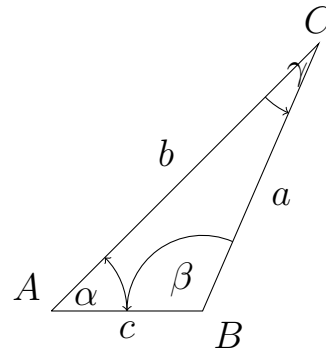
- a)  $\gamma = 49$  Grad,  $b = 6$  cm,  $\alpha = 91$  Grad  
 $a = 9,3$  cm,  $b = 6$  cm,  $c = 7$  cm



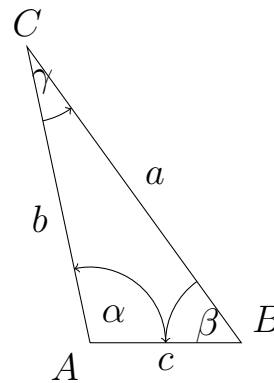
- b)  $\beta = 51$  Grad,  $a = 6,5$  cm,  $\gamma = 38$  Grad  
 $a = 6,5$  cm,  $b = 5$  cm,  $c = 4$  cm



- c)  $\alpha = 45$  Grad,  $c = 2$  cm,  $\beta = 113$  Grad  
 $a = 3,9$  cm,  $b = 5$  cm,  $c = 2$  cm



- d)  $\alpha = 102$  Grad,  $c = 2$  cm,  $\beta = 54$  Grad  
 $a = 4,8$  cm,  $b = 4$  cm,  $c = 2$  cm



Viel Erfolg!