

# Arbeitsblatt

28.07.2013

Kostenlos auf dw-aufgaben.de

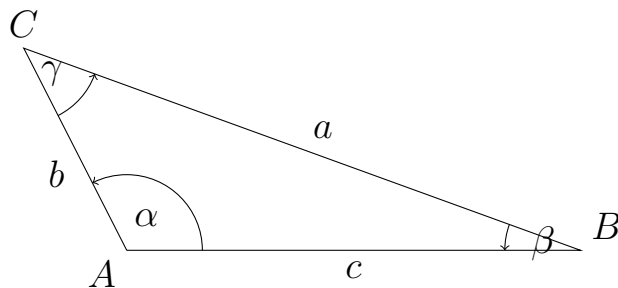
Aufgaben-Quickname: 4652

## Aufgabe 1

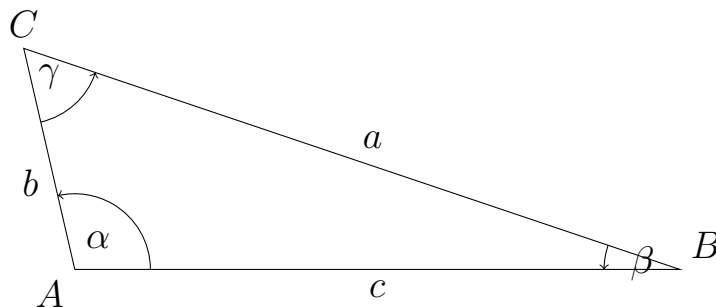
Quick:  
4652

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)?

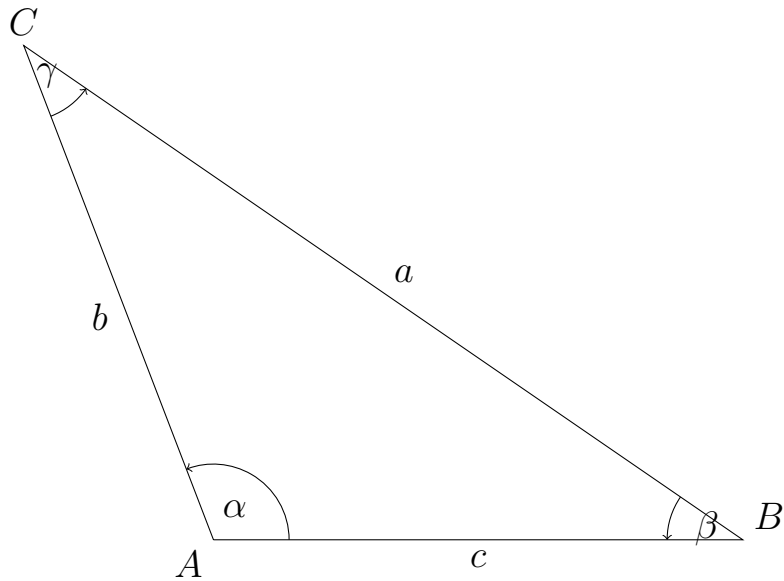
- a)  $\beta = 20$  Grad,  $a = 7,8$  cm,  $\gamma = 43$  Grad  
 $a = 7,8$  cm,  $b = 3$  cm,  $c = 6$  cm  
 $\alpha = 117$  Grad,  $\beta = 20$  Grad,  $\gamma = 43$  Grad



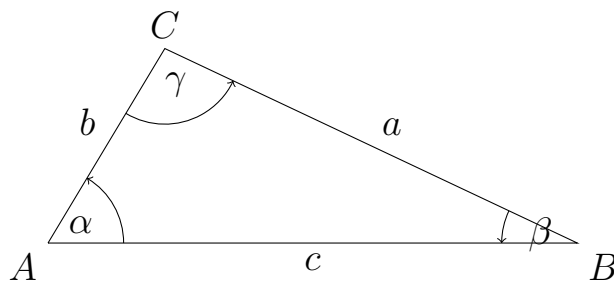
- b)  $a = 9,2$  cm,  $\gamma = 58$  Grad,  $b = 3$  cm  
 $a = 9,2$  cm,  $b = 3$  cm,  $c = 8$  cm  
 $\alpha = 103$  Grad,  $\beta = 19$  Grad,  $\gamma = 58$  Grad



- c)  $\gamma = 35$  Grad,  $b = 7$  cm,  $\alpha = 111$  Grad  
 $a = 11,5$  cm,  $b = 7$  cm,  $c = 7$  cm  
 $\alpha = 111$  Grad,  $\beta = 35$  Grad,  $\gamma = 35$  Grad



- d)  $\alpha = 59$  Grad,  $c = 7$  cm,  $\beta = 25$  Grad  
 $a = 6$  cm,  $b = 3$  cm,  $c = 7$  cm  
 $\alpha = 59$  Grad,  $\beta = 25$  Grad,  $\gamma = 96$  Grad

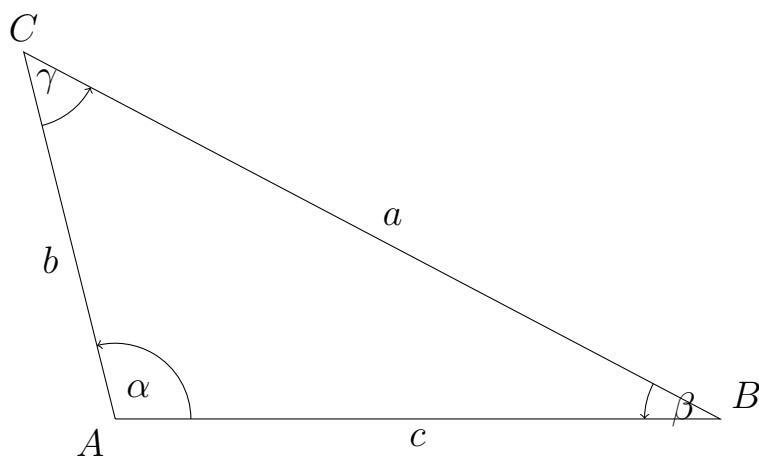


Aufgabe 2

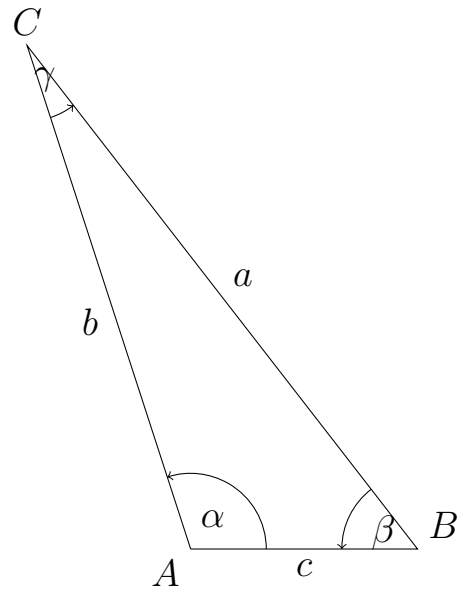
Zeichne das zugehörige Dreieck. Wie lang sind die Seiten a,b und c (messe ab)?

Quick:  
4652

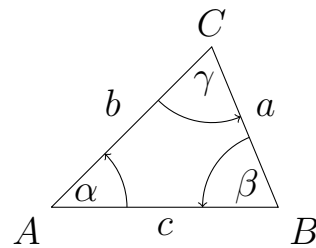
- a)  $\alpha = 104$  Grad,  $c = 8$  cm,  $\beta = 28$  Grad  
 $a = 10,4$  cm,  $b = 5$  cm,  $c = 8$  cm



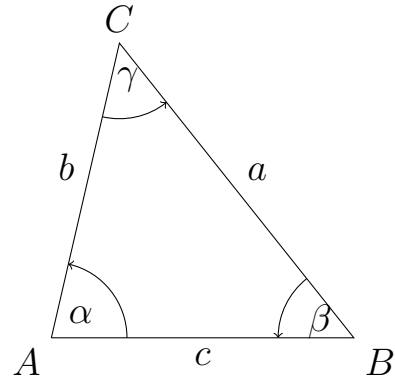
- b)  $a = 8,4 \text{ cm}, b = 7 \text{ cm}, c = 3 \text{ cm}$   
 $a = 8,4 \text{ cm}, b = 7 \text{ cm}, c = 3 \text{ cm}$



- c)  $a = 2,3 \text{ cm}, b = 3 \text{ cm}, c = 3 \text{ cm}$   
 $a = 2,3 \text{ cm}, b = 3 \text{ cm}, c = 3 \text{ cm}$



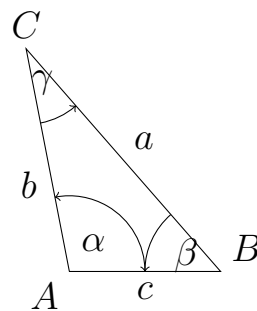
- d)  $\beta = 52 \text{ Grad}, a = 5 \text{ cm}, \gamma = 52 \text{ Grad}$   
 $a = 5 \text{ cm}, b = 4 \text{ cm}, c = 4 \text{ cm}$



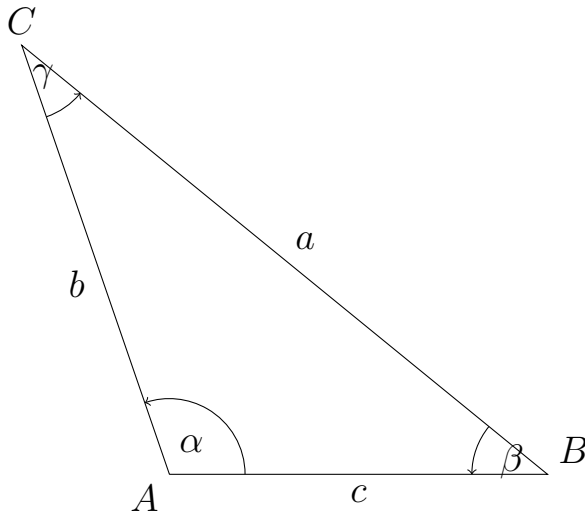
## Aufgabe 3

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

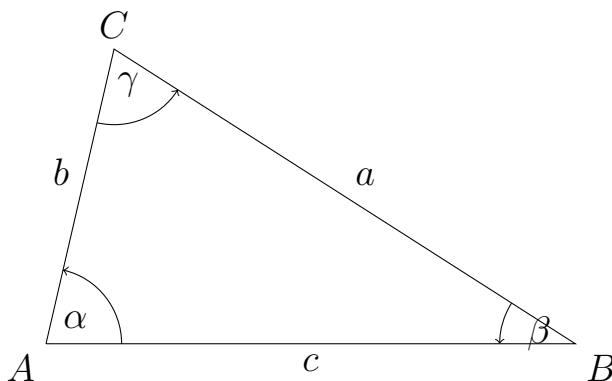
- a)  $a = 3,9$  cm,  $b = 3$  cm,  $c = 2$  cm  $\alpha = 101$  Grad,  $\beta = 49$  Grad,  $\gamma = 30$  Grad



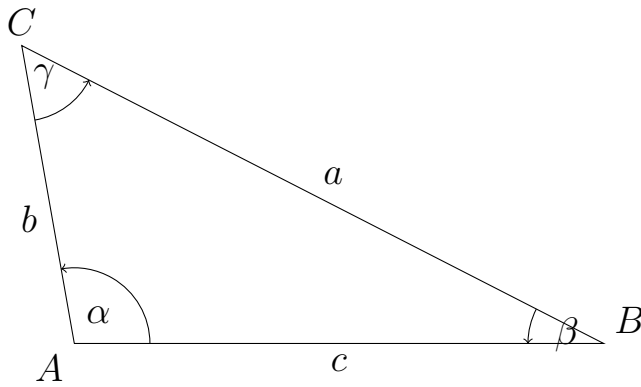
- b)  $\gamma = 32$  Grad,  $b = 6$  cm,  $\alpha = 109$  Grad  
 $\alpha = 109$  Grad,  $\beta = 39$  Grad,  $\gamma = 32$  Grad



- c)  $b = 4$  cm,  $\alpha = 77$  Grad,  $c = 7$  cm  $\alpha = 77$  Grad,  $\beta = 33$  Grad,  $\gamma = 70$  Grad



- d)  $\beta = 27$  Grad,  $a = 8,6$  cm,  $\gamma = 53$  Grad  
 $\alpha = 100$  Grad,  $\beta = 27$  Grad,  $\gamma = 53$  Grad

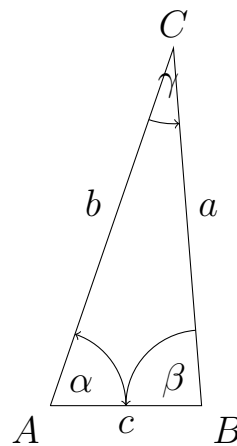


Aufgabe 4

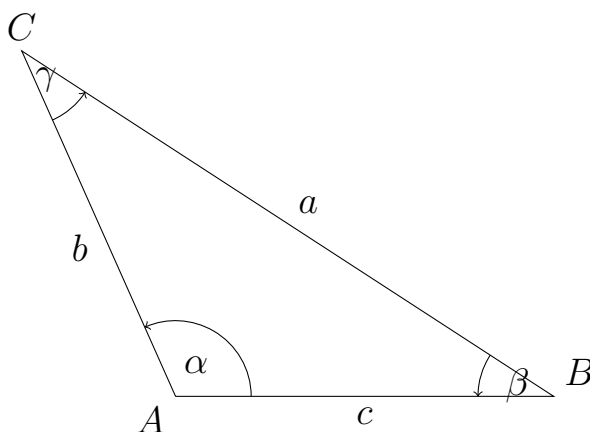
Zeichne das zugehörige Dreieck. Wie lang sind die Seiten a, b und c (messe ab)?

Quick:  
4652

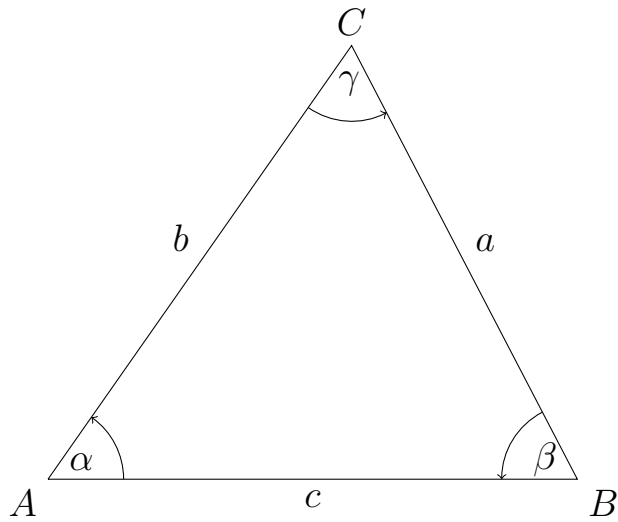
- a)  $\gamma = 24$  Grad,  $b = 5$  cm,  $\alpha = 71$  Grad  
 $a = 4,7$  cm,  $b = 5$  cm,  $c = 2$  cm



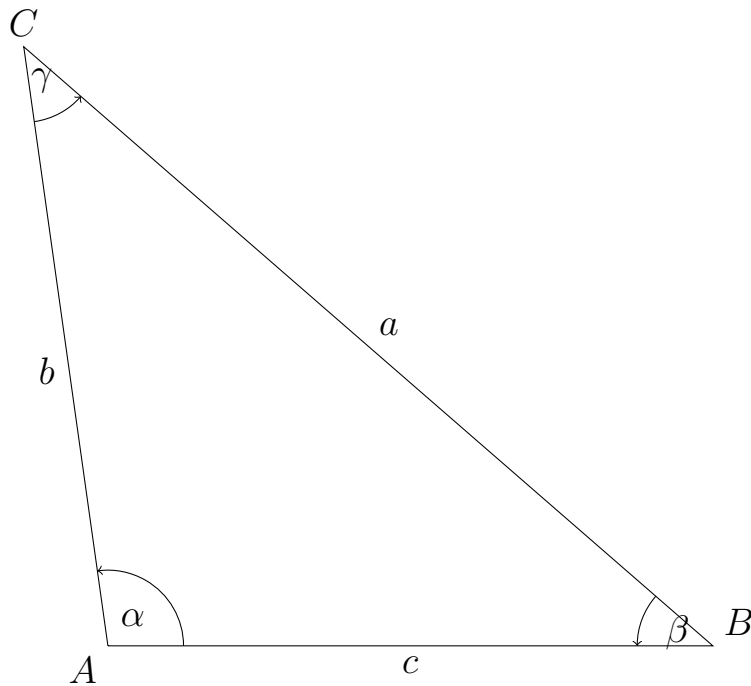
- b)  $\beta = 33$  Grad,  $a = 8,4$  cm,  $\gamma = 33$  Grad  
 $a = 8,4$  cm,  $b = 5$  cm,  $c = 5$  cm



- c)  $\gamma = 63$  Grad,  $b = 7$  cm,  $\alpha = 55$  Grad  
 $a = 6,5$  cm,  $b = 7$  cm,  $c = 7$  cm



- d)  $\beta = 41$  Grad,  $a = 12,1$  cm,  $\gamma = 41$  Grad  
 $a = 12,1$  cm,  $b = 8$  cm,  $c = 8$  cm



Viel Erfolg!