

# Arbeitsblatt

28.07.2013

Kostenlos auf [dw-aufgaben.de](http://dw-aufgaben.de)

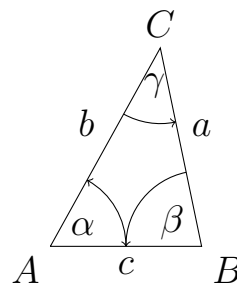
Aufgaben-Quickname: 4652

## Aufgabe 1

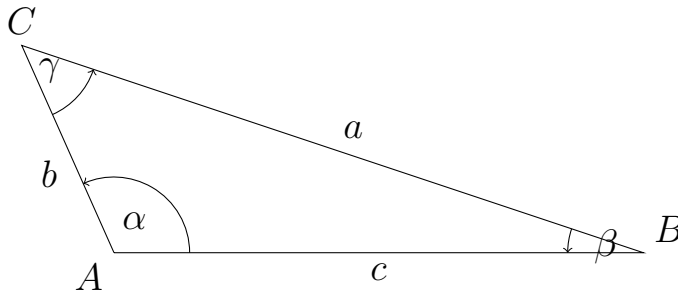
Zeichne das zugehörige Dreieck. Wie groß sind die Winkel  $\alpha$ ,  $\beta$  und  $\gamma$  (messe ab)? Wie lang sind die Seiten  $a$ ,  $b$  und  $c$  (messe ab)?

Quick:  
4652

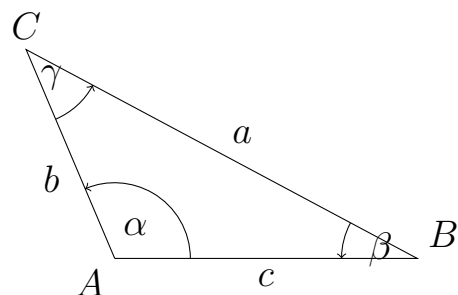
- a)  $a = 2,7$  cm,  $\gamma = 41$  Grad,  $b = 3$  cm  
 $a = 2,7$  cm,  $b = 3$  cm,  $c = 2$  cm  
 $\alpha = 61$  Grad,  $\beta = 78$  Grad,  $\gamma = 41$  Grad



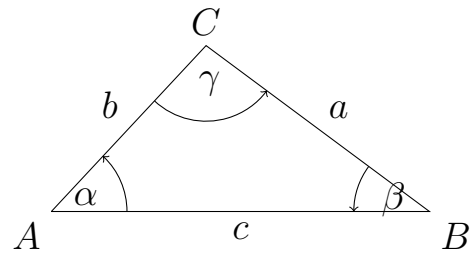
- b)  $\alpha = 114$  Grad,  $c = 7$  cm,  $\beta = 18$  Grad  
 $a = 8,7$  cm,  $b = 3$  cm,  $c = 7$  cm  
 $\alpha = 114$  Grad,  $\beta = 18$  Grad,  $\gamma = 48$  Grad



- c)  $b = 3$  cm,  $\alpha = 113$  Grad,  $c = 4$  cm  
 $a = 5,9$  cm,  $b = 3$  cm,  $c = 4$  cm  
 $\alpha = 113$  Grad,  $\beta = 28$  Grad,  $\gamma = 39$  Grad



- d)  $b = 3 \text{ cm}$ ,  $\alpha = 47 \text{ Grad}$ ,  $c = 5 \text{ cm}$   
 $a = 3,7 \text{ cm}$ ,  $b = 3 \text{ cm}$ ,  $c = 5 \text{ cm}$   
 $\alpha = 47 \text{ Grad}$ ,  $\beta = 37 \text{ Grad}$ ,  $\gamma = 96 \text{ Grad}$

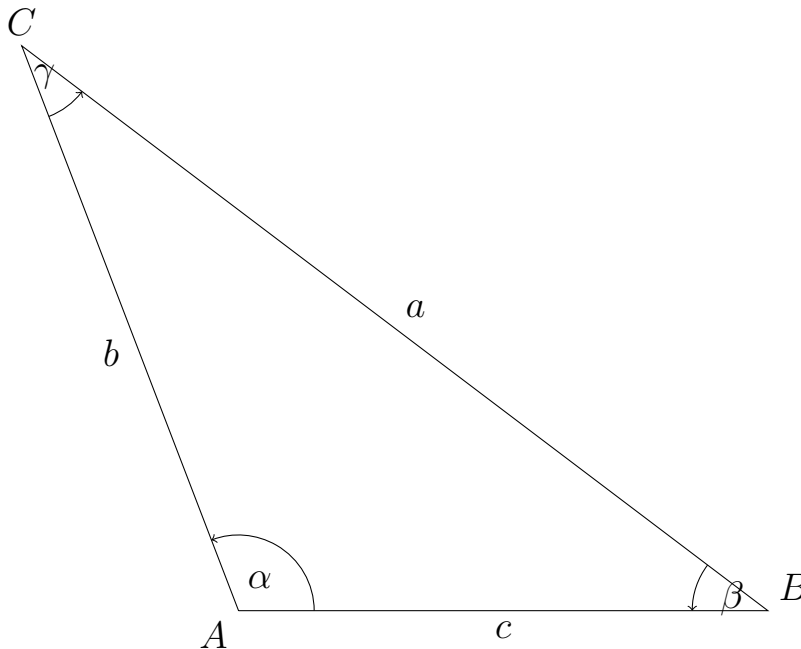


Aufgabe 2

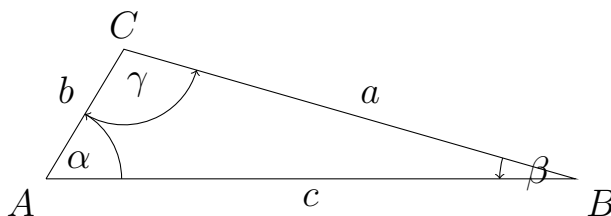
Zeichne das zugehörige Dreieck. Wie lang sind die Seiten a, b und c (messe ab)?

Quick:  
4652

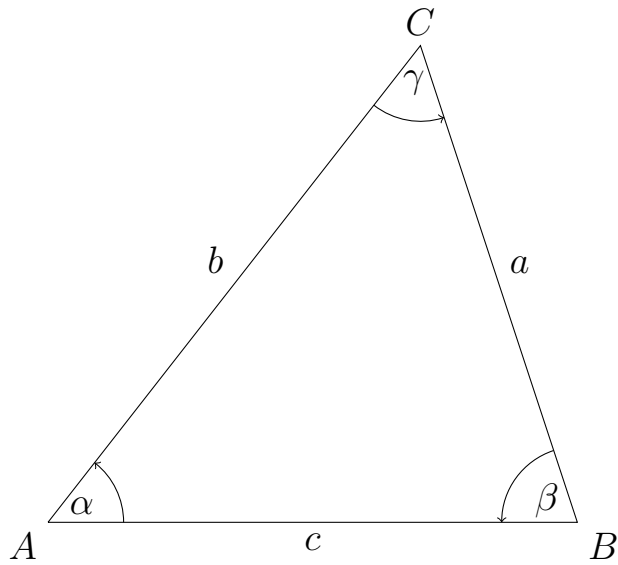
- a)  $a = 12,4 \text{ cm}$ ,  $b = 8 \text{ cm}$ ,  $c = 7 \text{ cm}$   
 $a = 12,4 \text{ cm}$ ,  $b = 8 \text{ cm}$ ,  $c = 7 \text{ cm}$



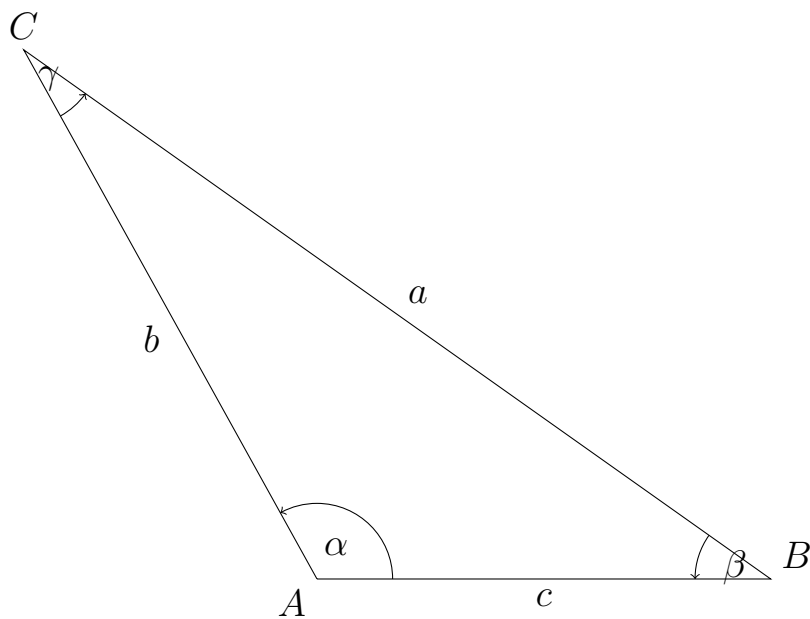
- b)  $a = 6,2 \text{ cm}$ ,  $b = 2 \text{ cm}$ ,  $c = 7 \text{ cm}$   
 $a = 6,2 \text{ cm}$ ,  $b = 2 \text{ cm}$ ,  $c = 7 \text{ cm}$



- c)  $a = 6,6 \text{ cm}$ ,  $b = 8 \text{ cm}$ ,  $c = 7 \text{ cm}$   
 $a = 6,6 \text{ cm}$ ,  $b = 8 \text{ cm}$ ,  $c = 7 \text{ cm}$



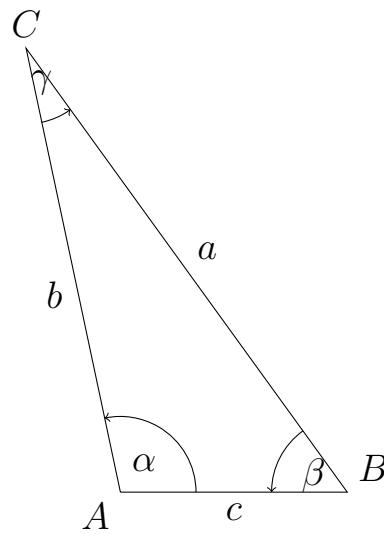
- d)  $a = 12,1$  cm,  $b = 8$  cm,  $c = 6$  cm  
 $a = 12,1$  cm,  $b = 8$  cm,  $c = 6$  cm



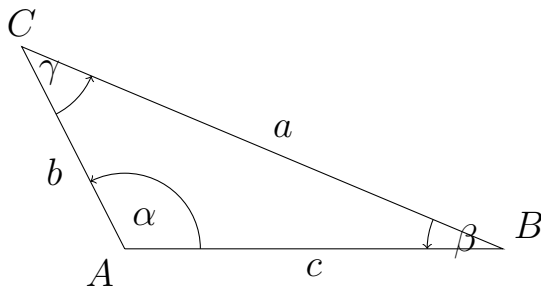
## Aufgabe 3

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

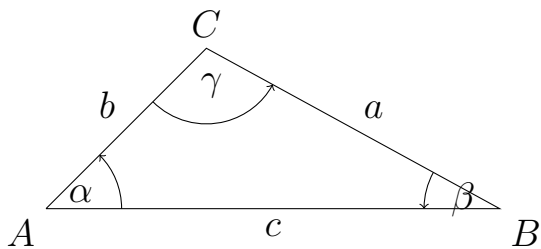
- a)  $a = 7,2 \text{ cm}$ ,  $b = 6 \text{ cm}$ ,  $c = 3 \text{ cm}$   $\alpha = 102 \text{ Grad}$ ,  $\beta = 54 \text{ Grad}$ ,  $\gamma = 24 \text{ Grad}$



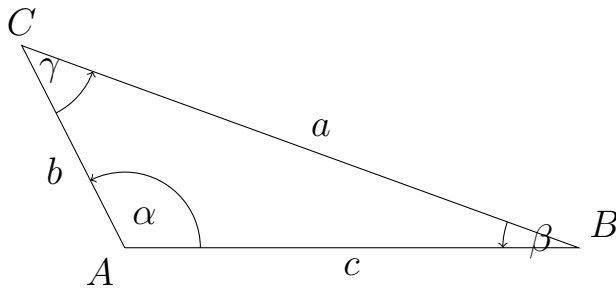
- b)  $\alpha = 117 \text{ Grad}$ ,  $c = 5 \text{ cm}$ ,  $\beta = 23 \text{ Grad}$   
 $\alpha = 117 \text{ Grad}$ ,  $\beta = 23 \text{ Grad}$ ,  $\gamma = 40 \text{ Grad}$



- c)  $a = 4,4 \text{ cm}$ ,  $b = 3 \text{ cm}$ ,  $c = 6 \text{ cm}$   $\alpha = 45 \text{ Grad}$ ,  $\beta = 29 \text{ Grad}$ ,  $\gamma = 106 \text{ Grad}$



- d)  $\beta = 20 \text{ Grad}$ ,  $a = 7,8 \text{ cm}$ ,  $\gamma = 43 \text{ Grad}$   
 $\alpha = 117 \text{ Grad}$ ,  $\beta = 20 \text{ Grad}$ ,  $\gamma = 43 \text{ Grad}$

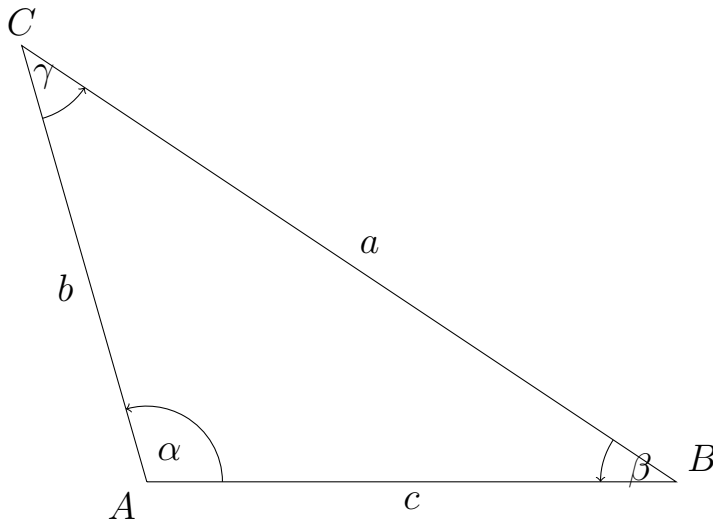


Aufgabe 4

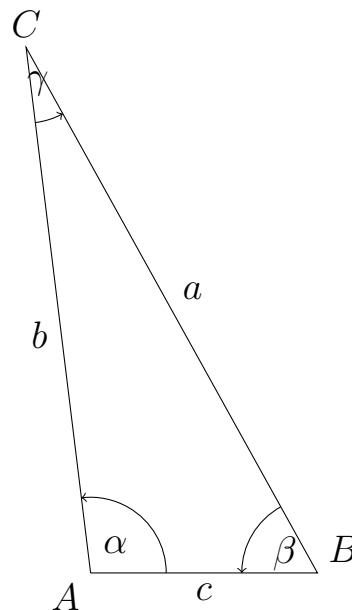
Zeichne das zugehörige Dreieck. Wie lang sind die Seiten a, b und c (messe ab)?

Quick:  
4652

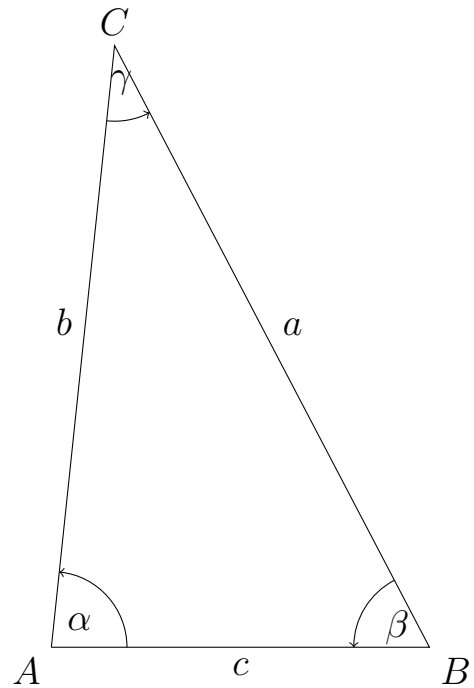
- a)  $\beta = 34$  Grad,  $a = 10,4$  cm,  $\gamma = 40$  Grad  
 $a = 10,4$  cm,  $b = 6$  cm,  $c = 7$  cm



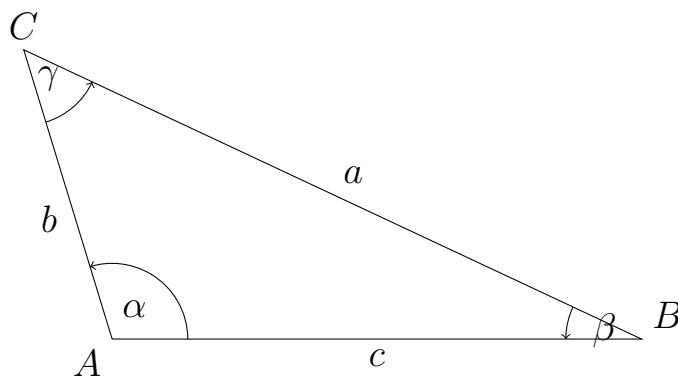
- b)  $\beta = 61$  Grad,  $a = 7,9$  cm,  $\gamma = 22$  Grad  
 $a = 7,9$  cm,  $b = 7$  cm,  $c = 3$  cm



- c)  $\beta = 62$  Grad,  $a = 9$  cm,  $\gamma = 34$  Grad  
 $a = 9$  cm,  $b = 8$  cm,  $c = 5$  cm



- d)  $\alpha = 107$  Grad,  $c = 7$  cm,  $\beta = 25$  Grad  
 $a = 9$  cm,  $b = 4$  cm,  $c = 7$  cm



Viel Erfolg!