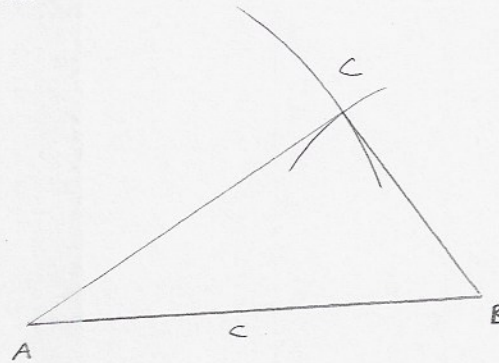
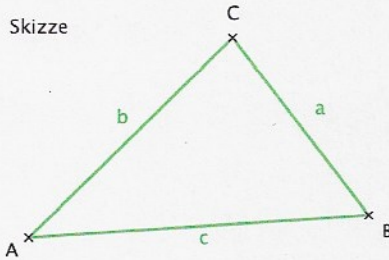


1.  $a = 3\text{cm}$        $b = 5\text{cm}$        $c = 6\text{cm}$

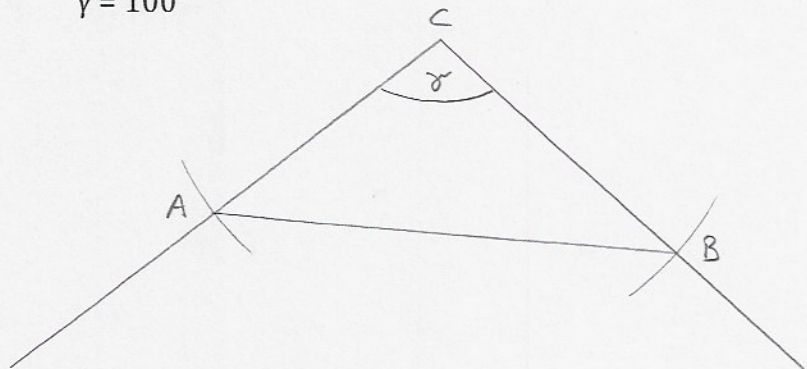
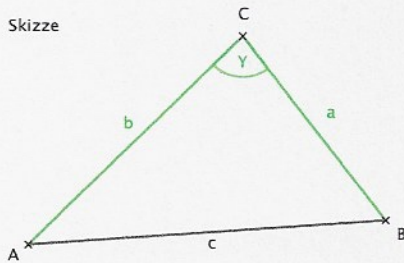
Skizze



- KB: 1.  $c \rightarrow A, B$   
 2.  $\odot(A, b) \cap \odot(B, a) \rightarrow C$

2.  $a = 4,2\text{cm}$        $b = 3,8\text{cm}$        $\gamma = 100^\circ$

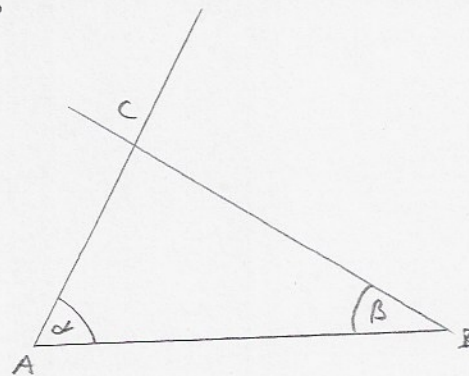
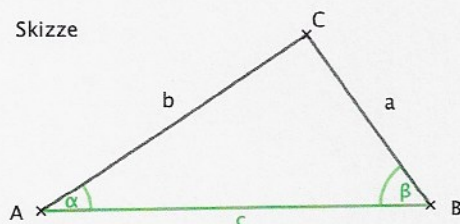
Skizze



- KB: 1.  $\gamma \rightarrow C$   
 2.  $\odot(C, b) \rightarrow A$   
 3.  $\odot(C, a) \rightarrow B$

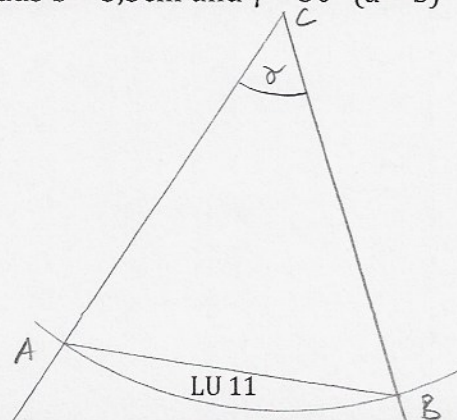
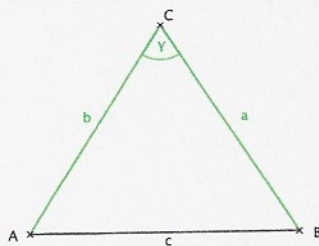
3.  $c = 5,5\text{cm}$        $\alpha = 61^\circ$        $\beta = 33^\circ$

Skizze



- KB: 1.  $c \rightarrow A, B$   
 2.  $\alpha$  in A  
 3.  $\beta$  in B  $\rightarrow C$

4. gleichschenkliges Dreieck aus  $b = 5,3\text{cm}$  und  $\gamma = 50^\circ$  ( $a = b$ )

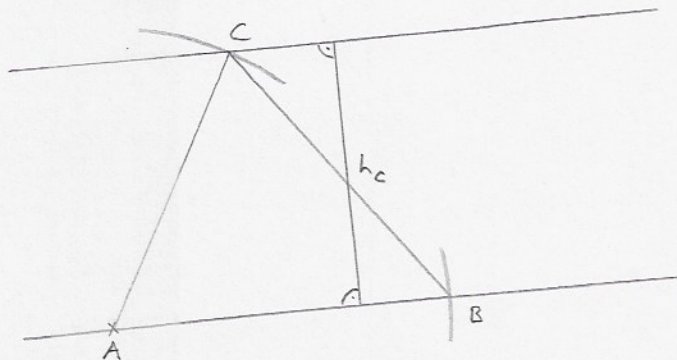
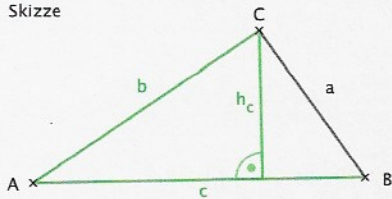


- KB: 1.  $\gamma$  in C  
 2.  $\odot(C, b) \rightarrow A, B$

5. a)  $b = 4\text{cm}$   $c = 4,5\text{cm}$

$h_c = 3,5\text{cm}$

Skizze



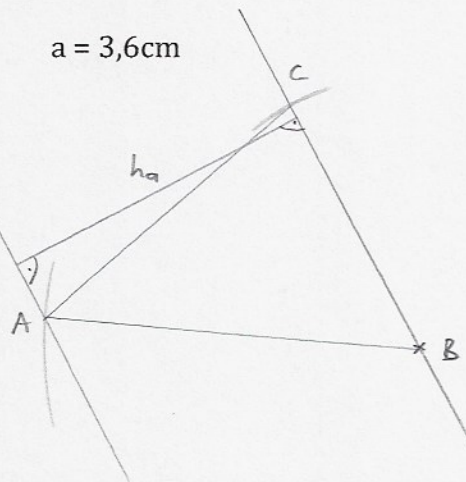
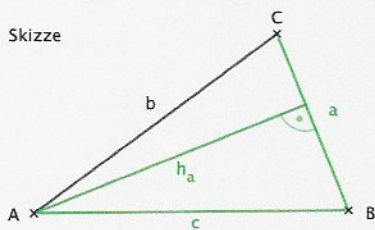
- KB: 1. Höhenstreifen  $h_c$   
 2.  $\odot (A, c) \rightarrow B$   
 3.  $\odot (A, b) \rightarrow C$

5. b)  $h_a = 4,2\text{cm}$

$c = 5\text{cm}$

$a = 3,6\text{cm}$

Skizze



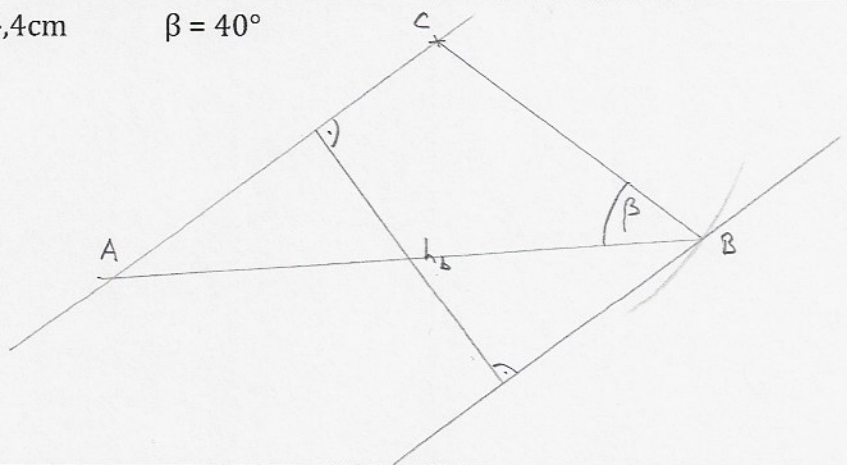
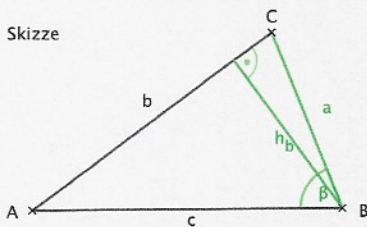
- KB: 1. Höhenstreifen  $h_a$   
 2.  $\odot (B, c) \rightarrow A$   
 3.  $\odot (B, a) \rightarrow C$

5. c)  $h_b = 4,2\text{cm}$

$a = 4,4\text{cm}$

$\beta = 40^\circ$

Skizze



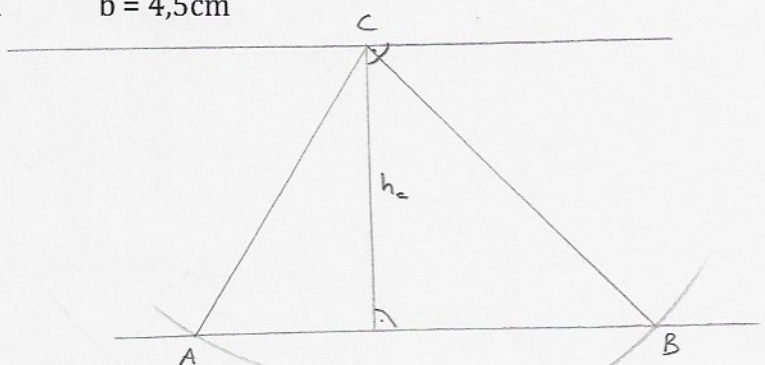
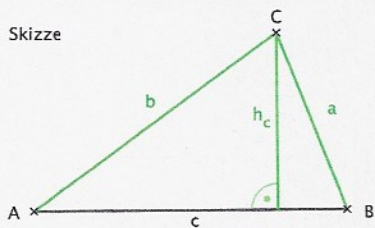
- KB: 1. Höhenstreifen  $h_b$   
 2.  $\odot (C, a) \rightarrow B$   
 3.  $\beta$  in  $B \rightarrow A$

5. d)  $h_c = 3,8\text{cm}$

$a = 5,4\text{cm}$

$b = 4,5\text{cm}$

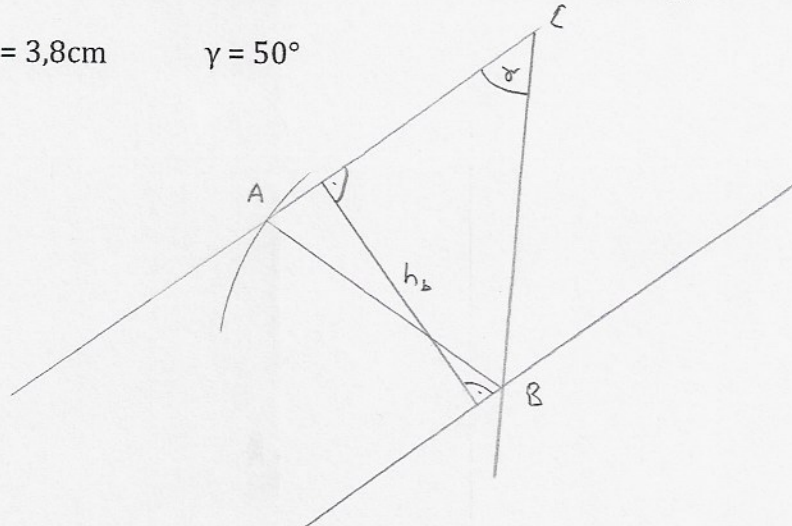
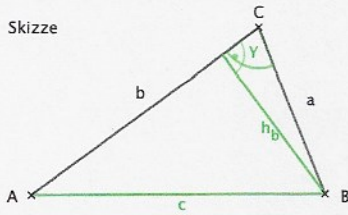
Skizze



- KB: 1. Höhenstreifen  $h_c$   
 2.  $\odot (C, a) \rightarrow B$   
 3.  $\odot (C, b) \rightarrow A$

5. e)  $h_b = 3,6\text{cm}$      $c = 3,8\text{cm}$      $\gamma = 50^\circ$

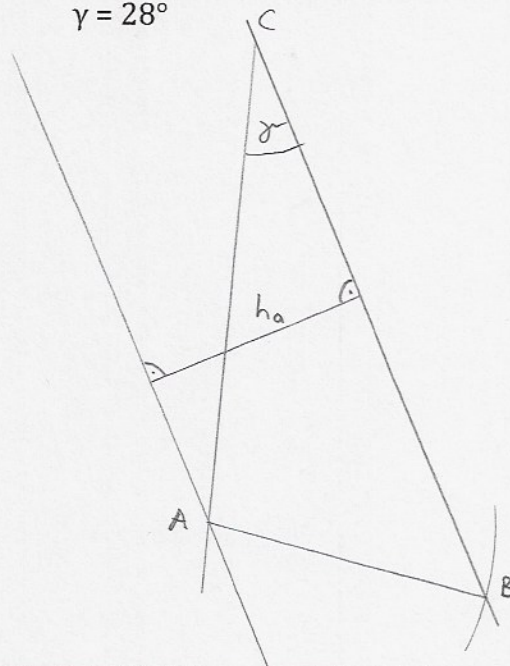
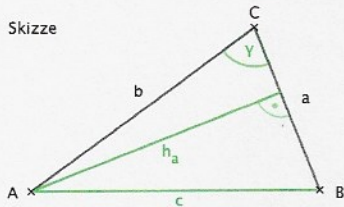
Skizze



- KB: 1. Höhenstreifen  $h_b$   
 2.  $\gamma$  in  $C \rightarrow B$   
 3.  $\odot (B, c) \rightarrow A$

5. f)  $c = 3,8\text{cm}$      $h_a = 3\text{cm}$      $\gamma = 28^\circ$

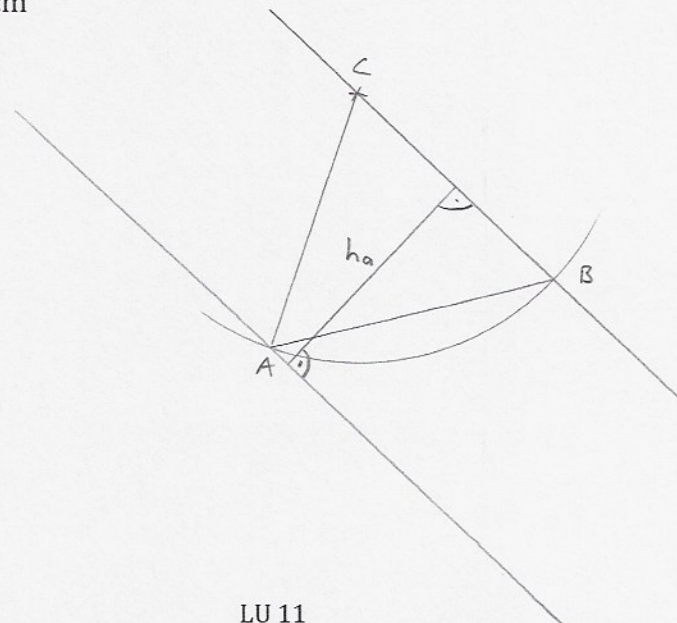
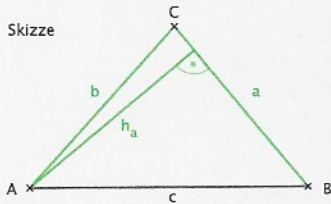
Skizze



- KB: 1. Höhenstreifen  $h_a$   
 2.  $\gamma$  in  $C \rightarrow A$   
 3.  $\odot (A, c) \rightarrow B$

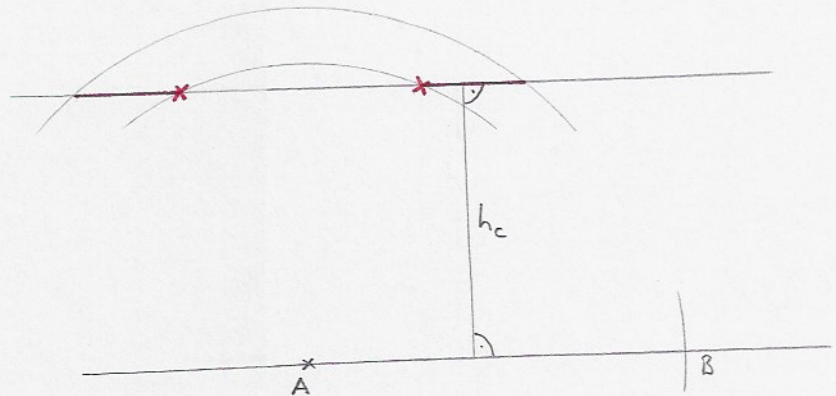
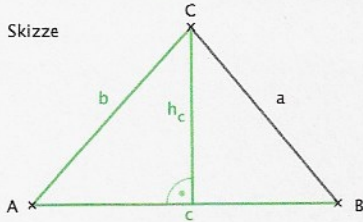
6. Konstruiere ein gleichschenkliges Dreieck mit der Grundseite  $c = |AB|$ , also  $a = b$   
 $h_a = 3,2\text{cm}$      $b = 3,5\text{cm}$

Skizze



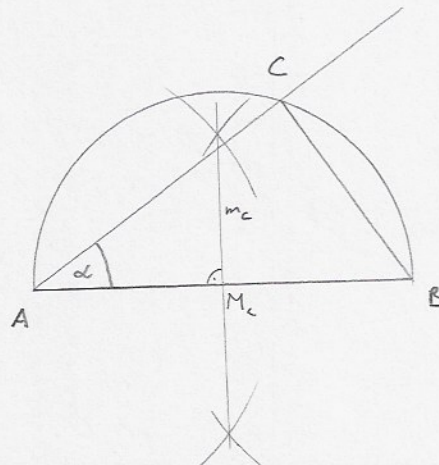
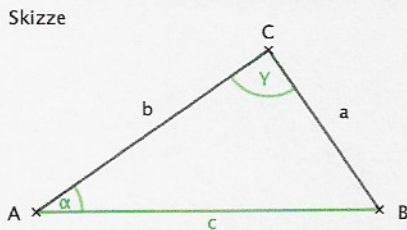
- KB: 1. Höhenstreifen  $h_a$   
 2.  $\odot (C, b) \rightarrow A, B$

7. Von einem Dreieck ist bekannt:  $c = 5\text{cm}$   $h_c = 3,6\text{cm}$   $4\text{cm} \leq b < 4,7\text{cm}$   
 Gib den Lösungsbereich (zwei Strecken) für den Punkt C an.



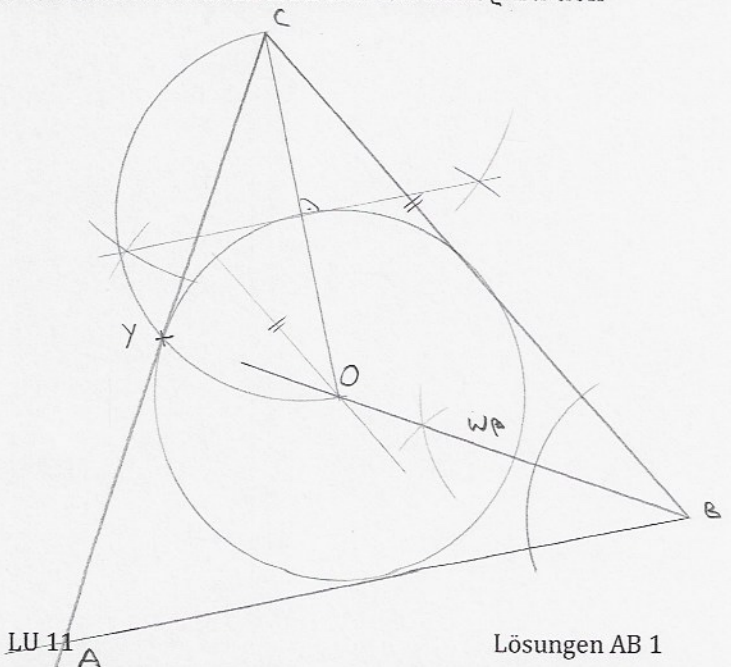
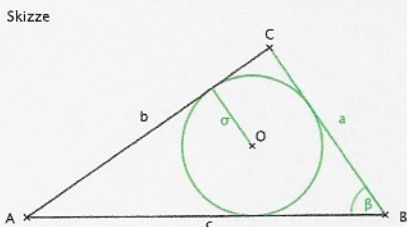
- KB: 1. Höhenstreifen  $h_c$   
 2.  $\odot(A, c) \rightarrow B$   
 3.  $\odot(A, 4\text{cm})$  und  $\odot(A, 4,7\text{cm})$

8. Konstruiere ein Dreieck aus  $c = 5\text{cm}$ ,  $\alpha = 35^\circ$  und  $\gamma = 90^\circ$ .  
 Nutze dein Wissen über den Thaleskreis!



- KB: 1.  $c \rightarrow A, B$   
 2.  $m_c \rightarrow M_c$   
 3. Thaleskreis  $\overline{AB}$   
 4.  $\alpha \rightarrow C$

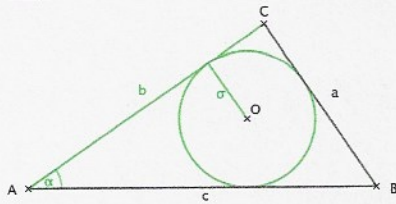
9. Konstruiere ein Dreieck samt Inkreis aus. Nutze zwei Parallelen im Abstand  $\rho$  zu den Linien des Winkels um O zu finden!  
 $a = 8,5\text{cm}$   $\rho = 2,4\text{cm}$   $\beta = 60^\circ$



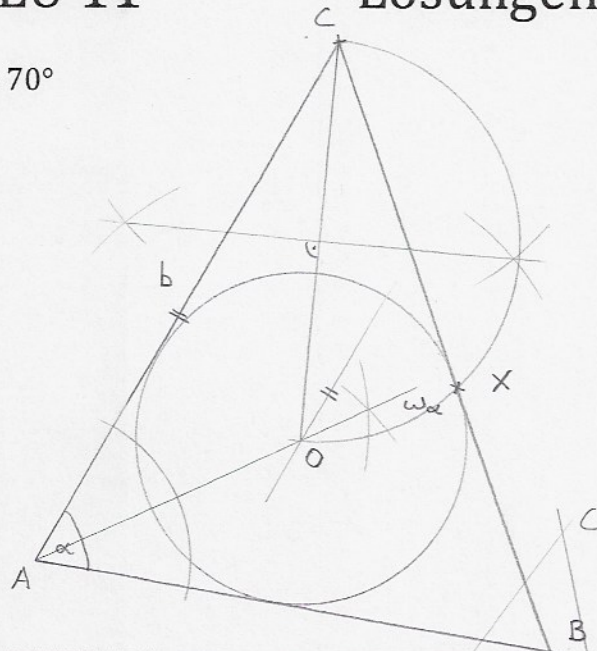
- KB: 1.  $a \rightarrow B, C$   
 2.  $\beta$   
 3.  $||$  zu  $a$  im Abstand  $\rho \cap w_\beta \rightarrow O$   
 4. Inkreis  $\cap$  Thaleskreis  $\overline{CO} \rightarrow Y$   
 5.  $CY \rightarrow A$

10.  $b = 8\text{cm}$      $\varrho = 2,2\text{cm}$      $\alpha = 70^\circ$

Skizze

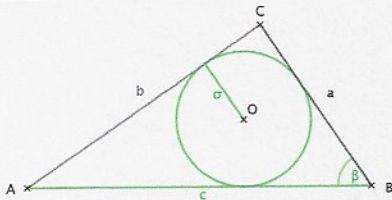


- KB: 1.  $b \rightarrow A, C$   
 2.  $\alpha$   
 3.  $l$  zu  $b$  im Abstand  $\varrho \cap w_\alpha \rightarrow O$   
 4. Inkreis  $\cap$  Thaleskreis  $\overline{CO} \rightarrow X$   
 5.  $CX \rightarrow B$

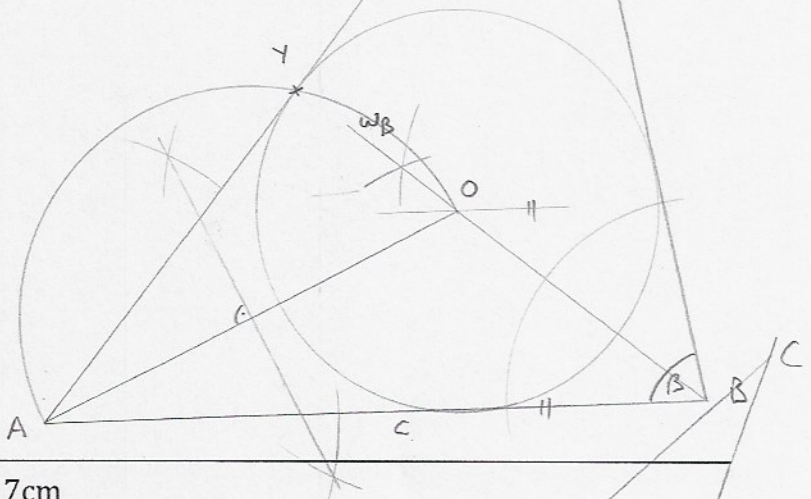


11.  $c = 8,8\text{cm}$      $\varrho = 2,6\text{cm}$      $\beta = 80^\circ$

Skizze

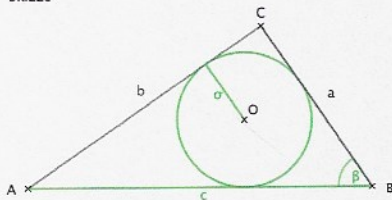


- KB: 1.  $c \rightarrow A, B$   
 2.  $\beta$   
 3.  $l$  zu  $c$  im Abstand  $\varrho \cap w_\beta \rightarrow O$   
 4. Inkreis  $\cap$  Thaleskreis  $\overline{AO} \rightarrow Y$   
 5.  $AY \rightarrow C$

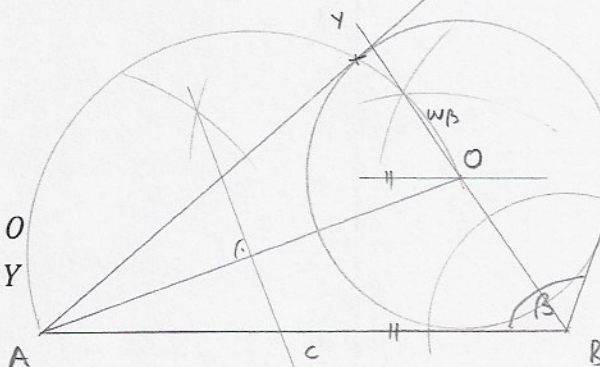


12.  $\varrho = 2\text{cm}$      $\beta = 110^\circ$      $c = 7\text{cm}$

Skizze

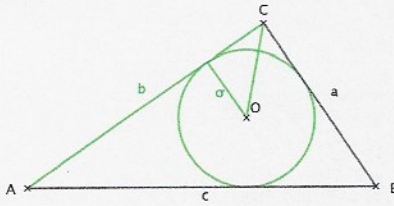


- KB: 1.  $c \rightarrow A, B$   
 2.  $\beta$   
 3.  $l$  zu  $c$  im Abstand  $\varrho \cap w_\beta \rightarrow O$   
 4. Inkreis  $\cap$  Thaleskreis  $\overline{AO} \rightarrow Y$   
 5.  $AY \rightarrow C$

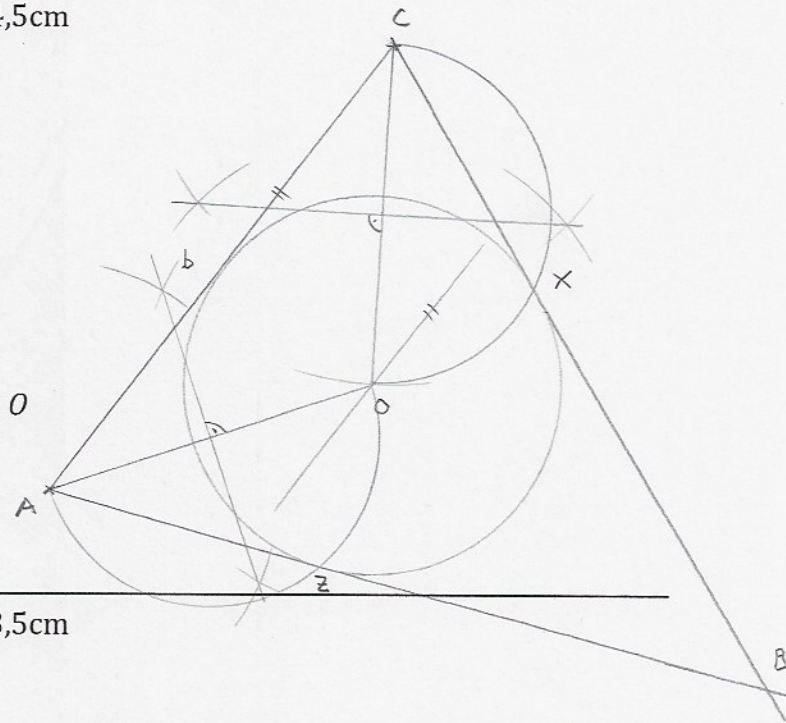


13.  $b = 7,5\text{cm}$      $\varrho = 2,5\text{cm}$      $ICOI = 4,5\text{cm}$

Skizze

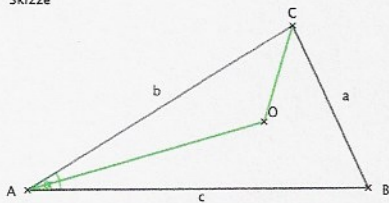


- KB: 1.  $b \rightarrow A, C$   
 2.  $II$  zu  $b$  im Abstand  $\varrho \cap \odot (C, \overline{CO}) \rightarrow O$   
 3.  $\text{Inkreis} \cap \text{Thaleskreis } \overline{AO} \rightarrow Z$   
 4.  $\text{Inkreis} \cap \text{Thaleskreis } \overline{CO} \rightarrow X$   
 5.  $AZ \cap CX \rightarrow B$

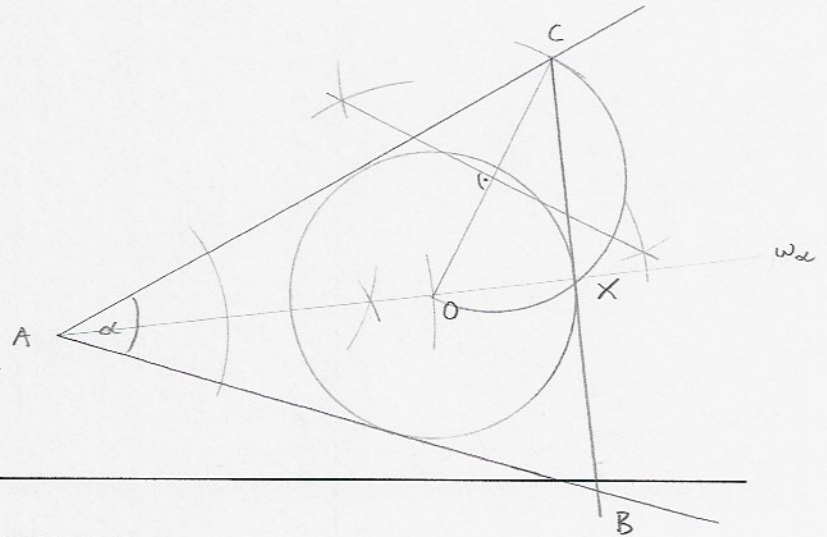


14.  $\alpha = 45^\circ$      $IAOI = 5\text{cm}$      $ICOI = 3,5\text{cm}$

Skizze

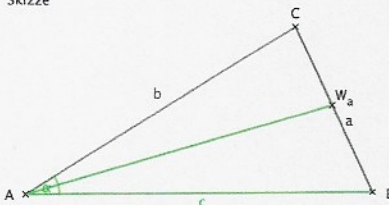


- KB: 1.  $\alpha$   
 2.  $w_\alpha \cap \odot (A, \overline{AO}) \rightarrow O$   
 3.  $\odot (O, \overline{CO}) \rightarrow C$   
 4.  $\text{Inkreis} \cap \text{Thaleskreis } \overline{CO} \rightarrow X$   
 5.  $CX \rightarrow B$

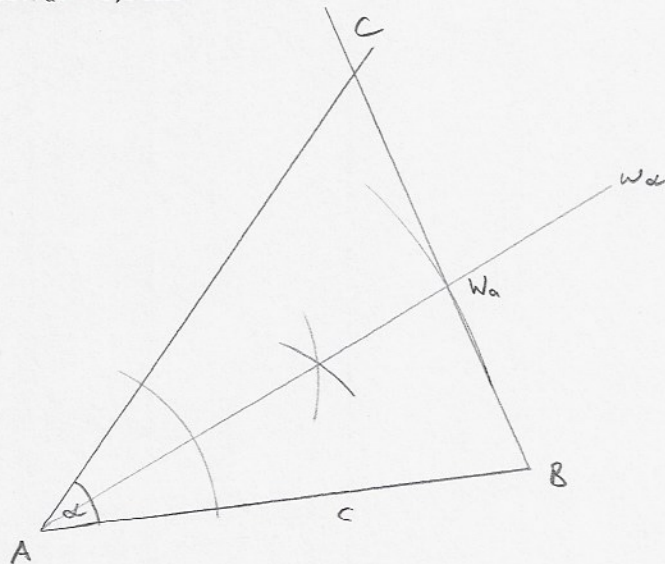


15.  $c = 6,5\text{cm}$      $\alpha = 48^\circ$      $I AW_a I = 6,3\text{cm}$

Skizze

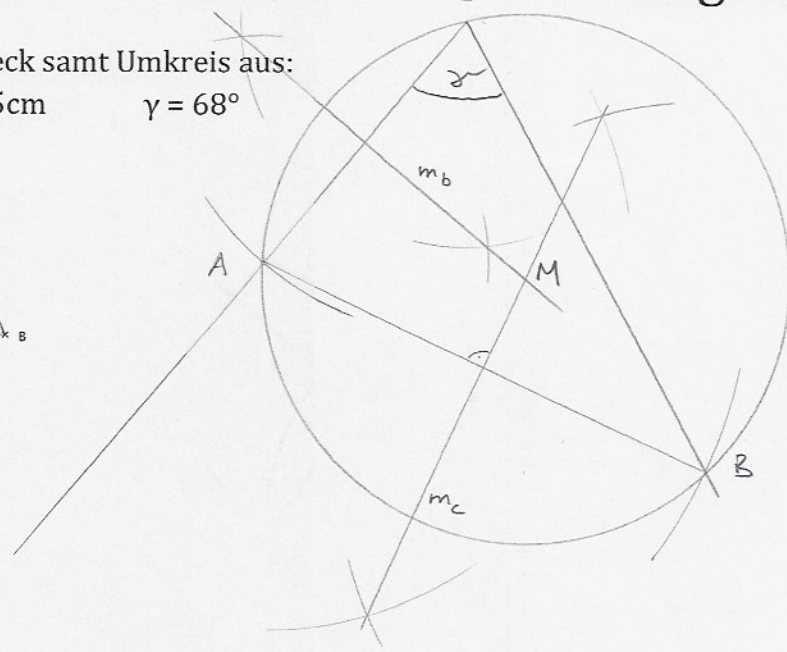
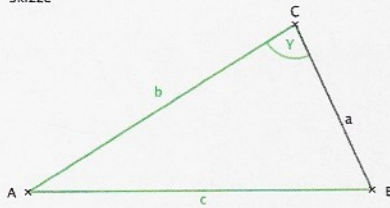


- KB: 1.  $c \rightarrow A, B$   
 2.  $\alpha$   
 3.  $w_\alpha \cap \odot (A, \overline{AW_a}) \rightarrow W_a$   
 4.  $BW_a \rightarrow C$



16. Konstruiere ein Dreieck samt Umkreis aus:  
 $b = 4,2\text{cm}$      $c = 6,5\text{cm}$      $\gamma = 68^\circ$

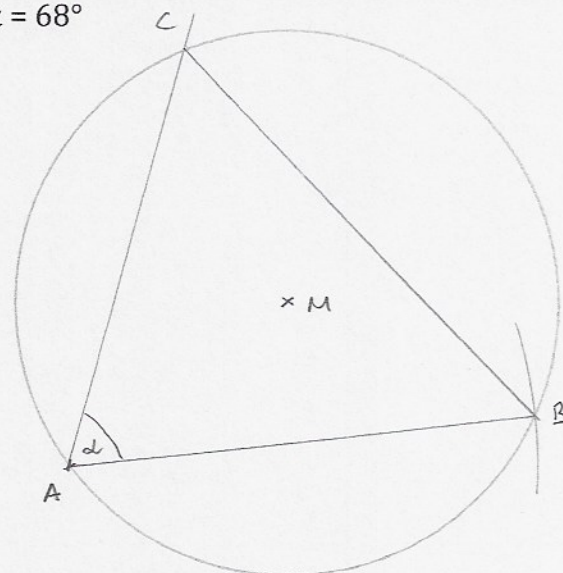
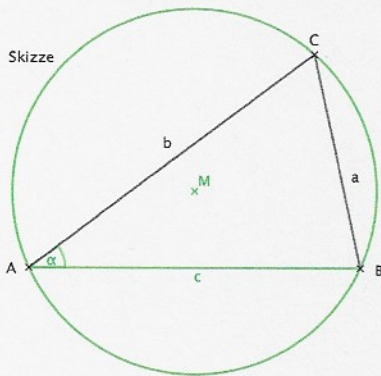
Skizze



- KB: 1.  $\gamma$   
 2.  $\odot (C, b) \rightarrow A$   
 3.  $\odot (A, c) \rightarrow B$   
 4.  $m_b \cap m_c \rightarrow M$   
 5.  $\odot (M, \overline{AM})$

17.  $c = 6,2\text{cm}$      $r = 3,6\text{cm}$      $\alpha = 68^\circ$

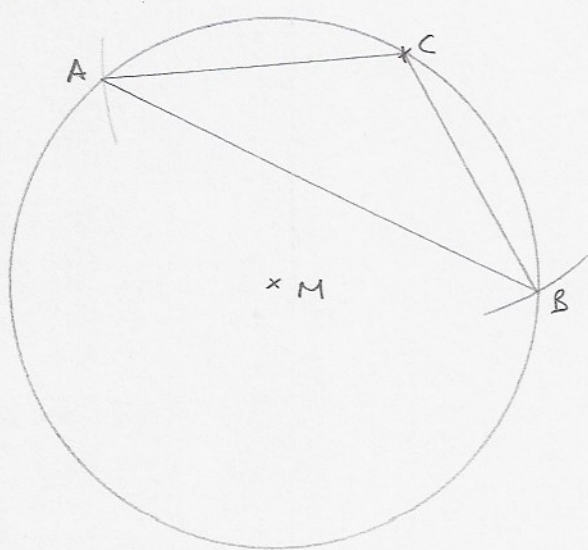
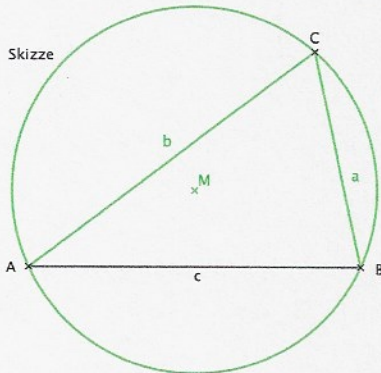
Skizze



- KB: 1.  $\odot (M, r)$   
 2.  $\odot (A, c) \rightarrow B$   
 3.  $\alpha \text{ in } A \rightarrow C$

18.  $a = 3,6\text{cm}$      $b = 4\text{cm}$      $r = 3,5\text{cm}$

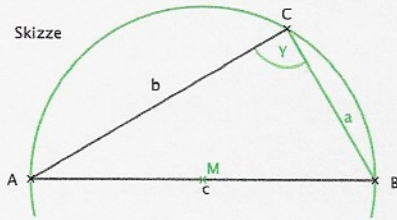
Skizze



- KB: 1.  $\odot (M, r)$   
 2.  $\odot (C, a) \rightarrow B$   
 3.  $\odot (C, b) \rightarrow A$

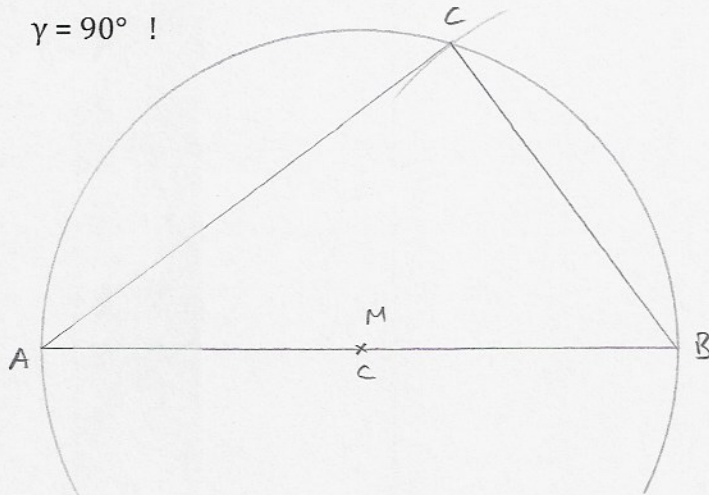
19.  $r = 4,2\text{cm}$      $a = 5\text{cm}$

Skizze



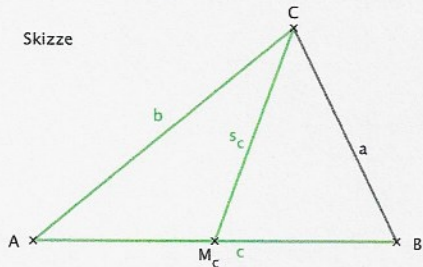
- KB: 1.  $\odot (M, r)$   
 2.  $c = \text{Durchmesser} \rightarrow A, B$   
 3.  $\odot (B, a) \rightarrow C$

$\gamma = 90^\circ !$

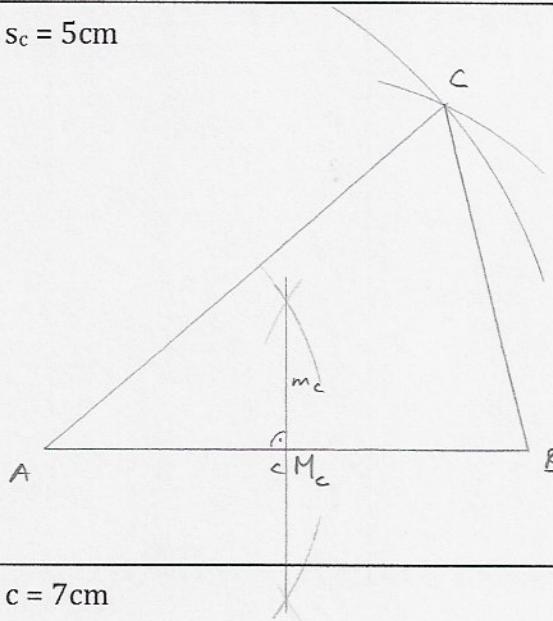


20.  $b = 7\text{cm}$      $c = 6,4\text{cm}$      $s_c = 5\text{cm}$

Skizze

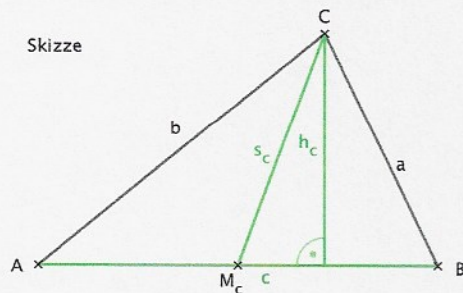


- KB: 1.  $c \rightarrow A, B$   
 2.  $m_c \rightarrow M_c$   
 3.  $\odot (A, b) \cap \odot (M_c, s_c) \rightarrow C$

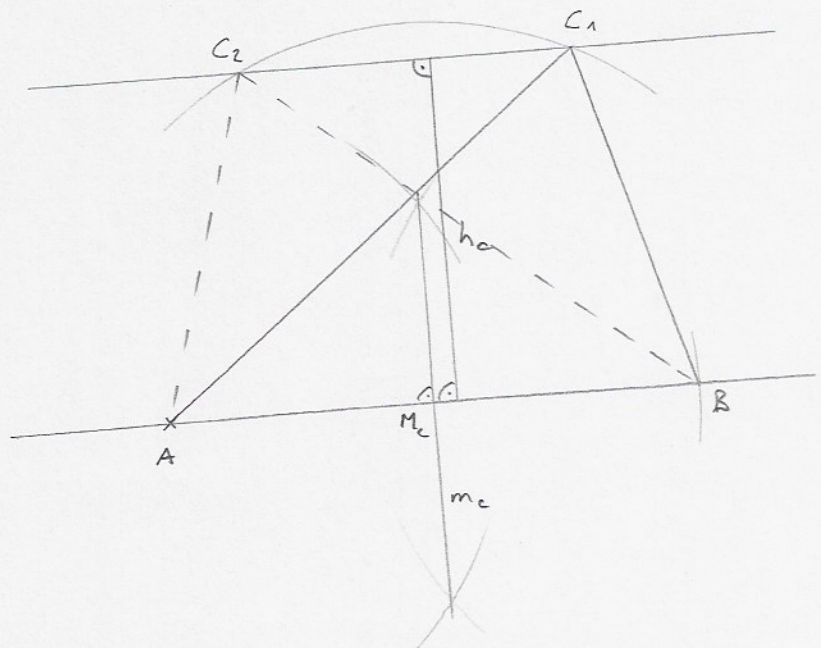


21.  $h_c = 4,5\text{cm}$      $s_c = 5\text{cm}$      $c = 7\text{cm}$

Skizze



- KB: 1. Höhenstreifen  $h_c$   
 2.  $c \rightarrow A, B$   
 3.  $m_c \rightarrow M_c$   
 4.  $\odot (M_c, s_c) \rightarrow C_1, C_2$

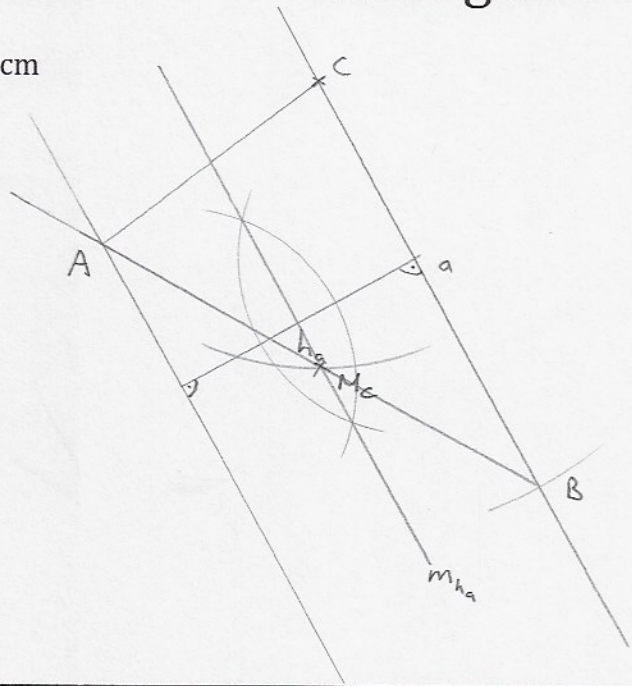
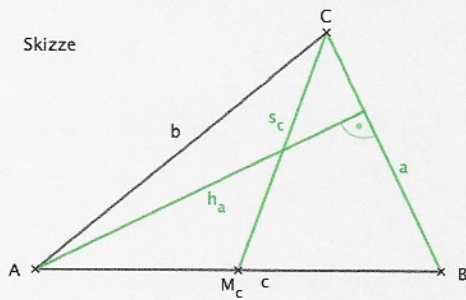




22.  $h_a = 3,5\text{cm}$      $s_c = 3,8\text{cm}$

$a = 6,1\text{cm}$

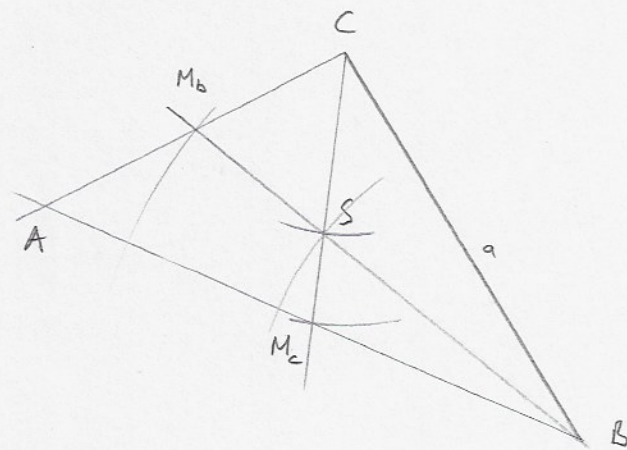
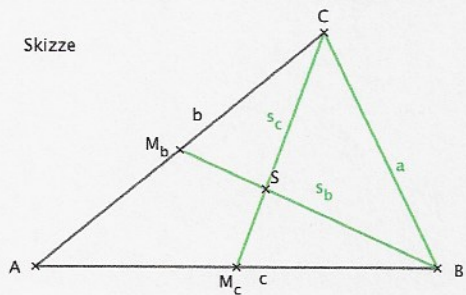
Skizze



- KB: 1. Höhenstreifen  $h_a$   
 2.  $a \rightarrow B, C$   
 3.  $m_{h_a} \cap \odot(C, s_c) \rightarrow M_c$   
 4.  $BM_c \rightarrow A$

23.  $a = 6\text{cm}$      $s_b = 6,6\text{cm}$      $s_c = 3,6\text{cm}$

Skizze



- KB: 1.  $a \rightarrow B, C$   
 2.  $\odot\left(C, \frac{2}{3}s_c\right) \cap \odot\left(B, \frac{2}{3}s_b\right) \rightarrow S$   
 3.  $s_c \cap \odot(C, s_c) \rightarrow M_c$   
 4.  $s_b \cap \odot(B, s_b) \rightarrow M_b$   
 5.  $BM_c \cap CM_b \rightarrow A$