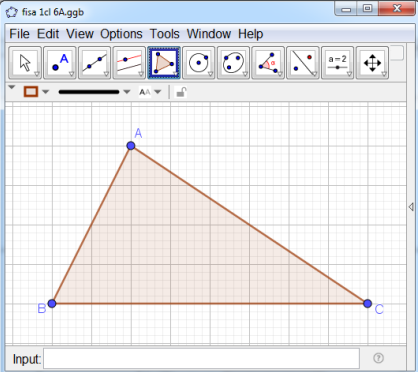
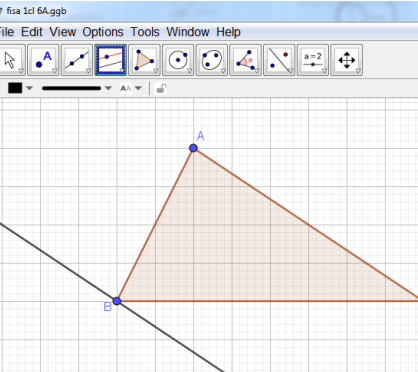
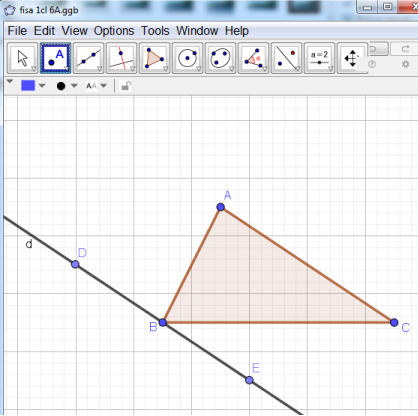
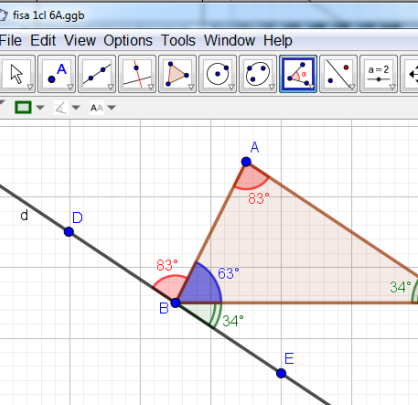


FIȘĂ DE LUCRU: Suma măsurilor unghiurilor unui triunghi
WORKSHEET: The sum of measures of the angles of a triangle

Nr. Crt.	Activitate/Activity	Pictograma/Icon	English text Demonstratii/Demonstrations
1.	Deschide un fișier GeoGebra și salvează-l astfel: nume_prenume_1		Open a file GeoGebra and save as Name_Surname_1
2.	Construiește un triunghi oarecare ABC		Draw a triangle ABC –Option “Polygon” (Icon 5)
3.	<ul style="list-style-type: none"> • Construiește paralela prin punctul B la dreapta AC. • Numește(redenumește) această dreaptă d. 		<ul style="list-style-type: none"> • Draw the parallel line through B to AC –Option “Parallel line” Icon 4 (select point and parallel line). • Name this line d
4.	<p>Construiește pe dreapta d punctele D și E de o parte și de alta a punctului B</p> <p>Completează enunțul, pentru a fi corect:</p> <ul style="list-style-type: none"> • Punctele A, C se află în același față de dreapta d. • Distanța de la punctul A la dreapta d este.....cu distanța de la punctul, la dreapta d. <p>Concluzie: Dacă două drepte sunt paralele, distanța dintre ele este</p>		<p>Draw on the line d, the points D and E , one side and the other pointB.</p> <p>Fill in the statement to be correct:</p> <ul style="list-style-type: none"> • Points A, C are in the same to line d. • The distance from point A to line d is with the distance from point, to line d. <p>Conclusion: If two straight lines are parallel, the distance between them is</p>
5.	<ul style="list-style-type: none"> •Construiește unghiurile ABD, EBC, ABC, BAC, ACB, CBA •Marchează unghiurile congruente cu același semn <ul style="list-style-type: none"> • Build the angles ABD, EBC, ABC, BAC, ACB, CBA • Marks the congruent angles with the same sign 		<ul style="list-style-type: none"> • $(d \parallel AC) \cap AB \Rightarrow \sphericalangle \dots \dots \equiv \sphericalangle \dots \dots$ (tip unghiuri/ angles type:.....) • $(d \parallel AC) \cap CB \Rightarrow \sphericalangle \dots \dots \equiv \sphericalangle \dots \dots$ <p>Concluzie/ Conclusion: $m(\sphericalangle ABC) + m(\sphericalangle ACB) + m(\sphericalangle BAC) = \dots$</p>

Use the drawing to deduce what is the sum of the angles of a triangle!

$\angle BAC$, $\angle ABD$ sunt/are:...

Verifică răspunsul! Check the answer!

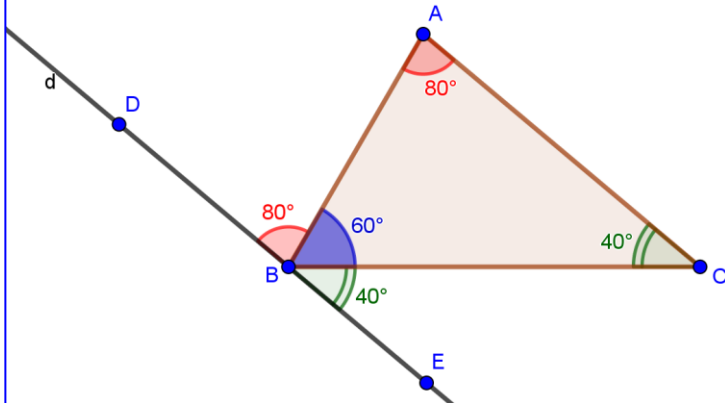
$\angle ACB$, $\angle CBE$ sunt/are:...

Verifică răspunsul!/Check the answer!

Suma măsurilor unghiurilor unui triunghi

Sum of measures of the angles of a triangle

Verifică!/Check the answer!



Problem

$\triangle ABC$: $m(\angle BAC)=56^\circ < 90^\circ$, $m(\angle ABC)=60^\circ < 90^\circ$, $m(\angle ACB) < 90^\circ$

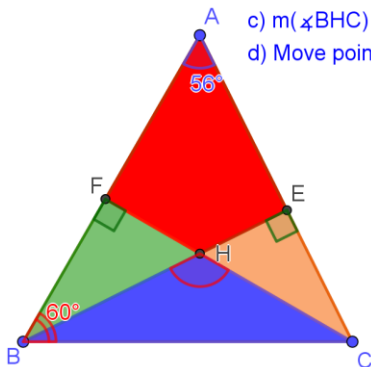
Find:

a) $m(\angle ACB)$

b) $m(\angle ACF)$, $m(\angle ABE)$,

c) $m(\angle BHC)$

d) Move point A to change the angles. Find the $m(\angle BHC)$, depending on the $m(\angle BAC)=\alpha$.



Solution a)

Solution b)

Solution c)