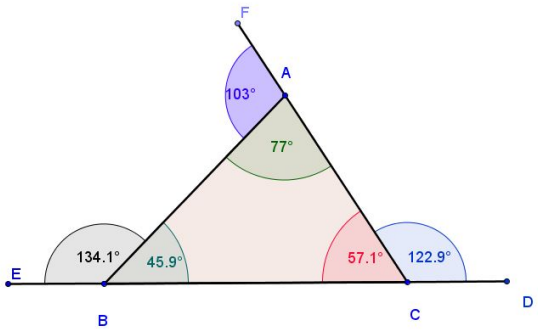
Student Activity Theorem 6

Use in connection with interactive file "Theorem 6" on the Student's CD.



Give all answers correct to the nearest degree.

1. Drag the point A to make the measure of the angle EBA = 130°
   What is the measure of the angle BAC? _____ .
   What is the measure of the angle BCA? _____ .
   What is the sum of the measures of the angles BAC and BCA?
   Measure of the angle BAC + Measure of BCA = _____
   Is this sum equal to the measure of the angle EBA? _____

2. Drag the point A to make the measure of the angle DCA = 100° .
   What is the measure of the angle CBA? _____ .
   What is the measure of the angle CAB? _____ .
   What is the sum of the measures of the angles CBA and CAB?
   Measure of the angle CBA + Measure of CAB = _____
   Is this sum equal to the measure of the angle DCA? _____

3. Drag the point A to make the measure of the angle FAB = 110°.
   What is the measure of the angle ABC? _____ .
   What is the measure of the angle ACB? _____ .
   What is the sum of the measures of the angles ABC and ACB?_____
   Measure of the angle ABC + Measure of ACB = _____
   Is this sum equal to the measure of the angle FAB? _____

4. Drag the point A to make the measure of the angle DCA = 84°.
   What is the measure of the angle CBA? _____ .
   What is the measure of the angle CAB? _____ .
   What is the sum of the measures of the angles CBA and CAB?_____
   Measure of the angle CBA + Measure of CAB = _____
   Is this sum equal to the measure of the angle DCA? _____

5. What conclusion can you deduce from the measurements in Q 1, Q2, Q3, and Q4.
   Conclusion. _____
   _____

6. Click on the Tick Box on the interactive file to reveal the wording of this theorem.
   Did you come to this conclusion? _____.