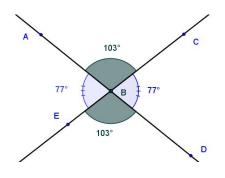


Student Activity Theorem 1

Use in connection with interactive file "Theorem 1" on the Student's CD.



- Drag the point C to make the measure of angle CBA equal to 90°. What do you notice about the measure of the angle EBD?
- 2. When the measure of the angle CBA is 90° What do notice about the measures of the angles EBD, ABE and CBD.
- 3. What conclusion can be drawn from adding all the angles in question 2?
- Drag the point C to make the measure of the angle CBD equal to 70°. Write down the measures of the angles ABE, ABC and EBD.
 ABE ABE ABC and EBD.

ABE = _____, ABC = _____ and EBD = _____

Drag the point C to make the measure of the angle ABE 60°. Is the measure of the angle CBD the same?

What is the measure of the angle ABC? ______ Is the measure of the angle EBD

equal to the measure of the angle ABC? _____

Drag the point C to make the measure of the angle ABC 130°. Is the measure of the angle EBD the same?

What is the measure of the angle ABE?_____ Is the measure of the angle CBD

equal to the measure of the angle ABE? _____

 By dragging the point C make the measure of the angle ABC 93°. When you add the measure of angle ABC to the measure of angle CBD what answer do you get?_____

What does this tell you about the points A, B and D?_____



8. Make the measure of the angle EBD = 100°. What are the measures of the following angles (i) ABC = _____ (ii) EBA = _____ (iii) CBD = _____ What does this show you? _____

When you add the measures of the angles EBD, ABE, ABC and CBD you get ______

9. Click on the Tick Box on the interactive file to reveal the wording of this theorem.

Did you come to this conclusion? _____