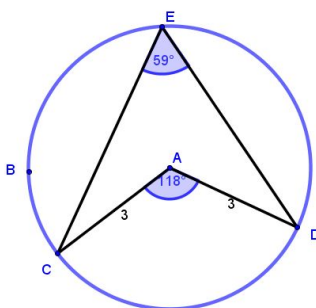


Student Activity Theorem 19

Use in connection with interactive file “Theorem 19” on the Student’s CD.

(Higher Level only)



1. Name the two line segments that are the radii of the circle. _____
2. Name the centre of the circle. _____
3. Move the point B around, what do you notice about the relationship between $|AC|$ and $|AD|$? _____
4. Move the point D in the interactive file, so that the angle CAD is 120° . What is the measure of the angle CED? _____
5. Move the point D in the interactive file, so that the angle CAD is 140° . What is the measure of the angle CED? _____
6. Move the point D in the interactive file, so that the angle CAD is 80° . What is the measure of the angle CED? _____
7. Move the point D in the interactive file, so that the angle CED is 50° . What is the measure of the angle CAD? _____
8. Move the point D in the interactive file, so that the angle CED is 70° . What is the measure of the angle CAD? _____
9. What is the relationship between angle CAD and the angle CED?

10. Move B to the left and make the circle bigger, does the relationship between the angles CAD and CED change? _____ Explain. _____

11. Move B to the right and make the circle smaller, does the relationship between the angles CAD and CED change? _____ Explain. _____

12. What can you conclude from the answers above?

Conclusion _____

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

Did you come to this conclusion? _____.