Past Paper Questions

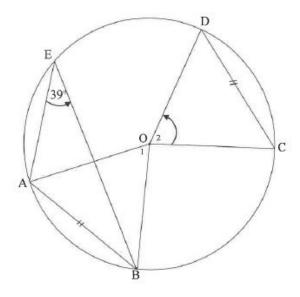
Grade 11

Geometry on Geometry Theorems Part 1 Document

Go through the Geometry Theorems Part 1 and do the following questions

QUESTION 9

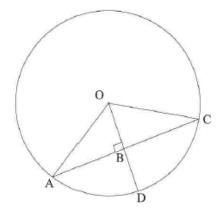
9.1 In the figure, O is the centre of the circle. A, B, C, D and E lie on the circle such that chord AB and chord DC are equal in length and $A\hat{E}B = 39^{\circ}$.



9.1.1 Determine the size of \hat{O}_1 .

(2)

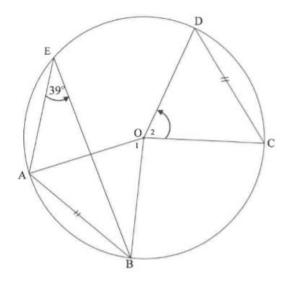
9.3 In the diagram, O is the centre of the circle. Chord AC is perpendicular to radius OD at B. OB = 2x units and AC = 8x units.



Show that the length of BD is $2x(\sqrt{5}-1)$ units.

(5)

ANSWERS



9.1.1	$\hat{O}_1 = 78^{\circ}$ [angle at centre = $2 \times \angle$ at circumference] $[middelpuntshoek = 2 \times omtrekshoek]$	✓ S ✓ R
		(2)

