TACKLING GEOMETRY IN THE FET BAND

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TARGET AUDIENCE: FET Band Mathematics teachers.
DURATION: 2-hour workshop.
MAXIMUM NO. OF PARTICIPANTS: 30 participants

MOTIVATION

Geometry has been part of the optional (Paper 3) part of FET since 2006, but now with the introduction of CAPS all FET teachers will have to teach it again. This workshop aims to assist the FET teachers in two ways: help the teachers to teach geometry in the FET band and help them to understand geometry better.

CONTENT

Two geometry riders will be worked through in a specific way where the participants will first be looking at the rider with only the sketch and information WITHOUT the questions. Participants will develop an "information sheet" to use when doing geometry riders.

20 minutes:	developing a Grade 10 information sheet
20 minutes:	working on the Grade 10 rider without the questions
10 minutes:	answering the Grade 10 rider questions (to be provided at workshop)
10 minutes:	adapting the Grade 10 information sheet to become a Grade 11 information sheet
25 minutes:	working on the Grade 11 rider without the question
15 minutes:	answering the Grade 11 rider questions (to be provided at workshop)
20 minutes:	discussion

ABSTRACT

As Geometry returns to the South African FET mathematics classroom, many teachers feel unsure about teaching learners how to answer Geometry riders. In this workshop teachers will be helped to develop information sheets that should include all relevant geometry facts appropriate for the Grade and then using that and the facts given for the rider to analyse the rider, without looking at the questions. Once all information is indicated on the sketch, the rider is answered. In the workshop the participants will work through one Grade 10 and one Grade 11 rider.

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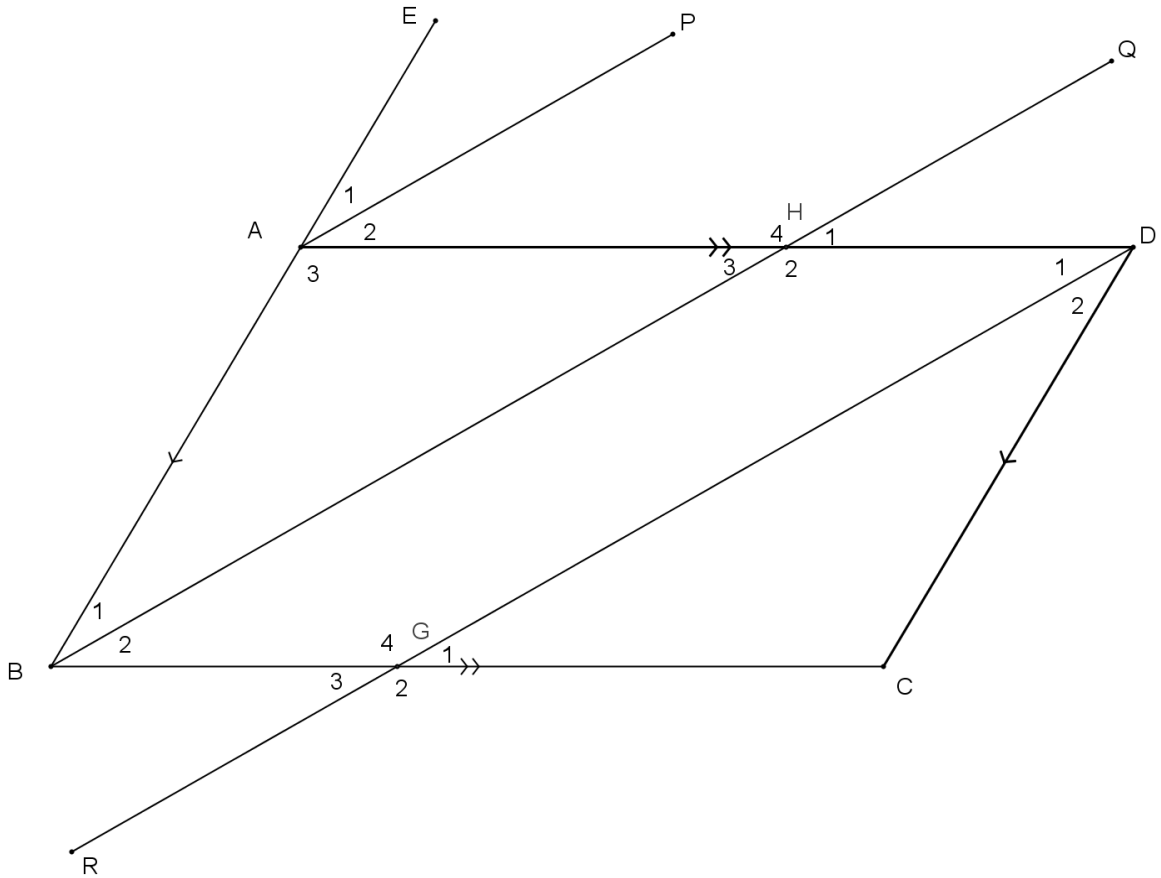
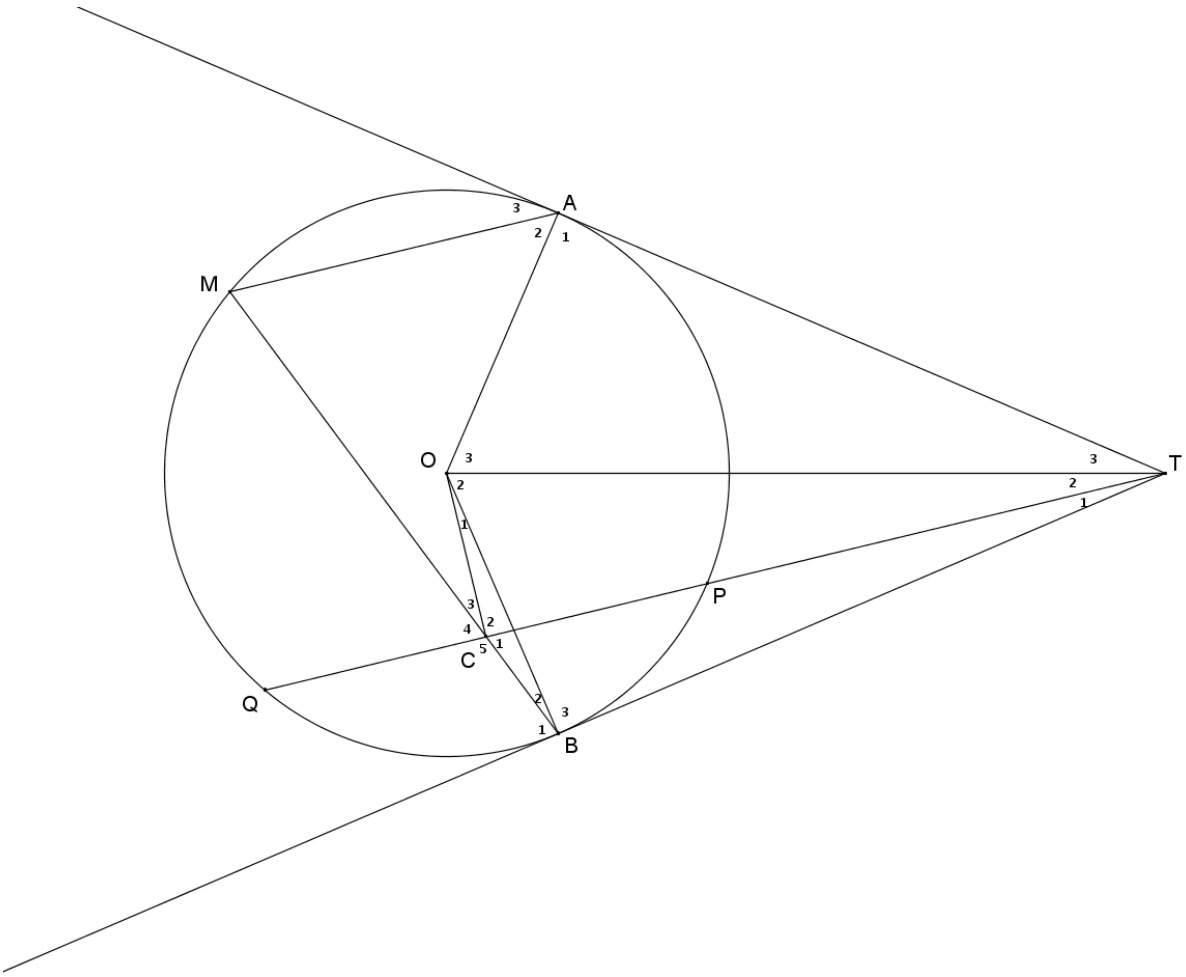
GRADE 10 RIDER



ABCD is a quadrilateral with AD||BC and AB||DC. BA is produced to E. AP, BQ and DR bisect $E\hat{A}D$, $\hat{B}$ and $\hat{D}$ respectively.

GRADE 11 RIDER

O is the centre of the circle. TA and TB are tangents, TPQ is a secant. C is the midpoint of PQ. BC produced meets the circle in M.