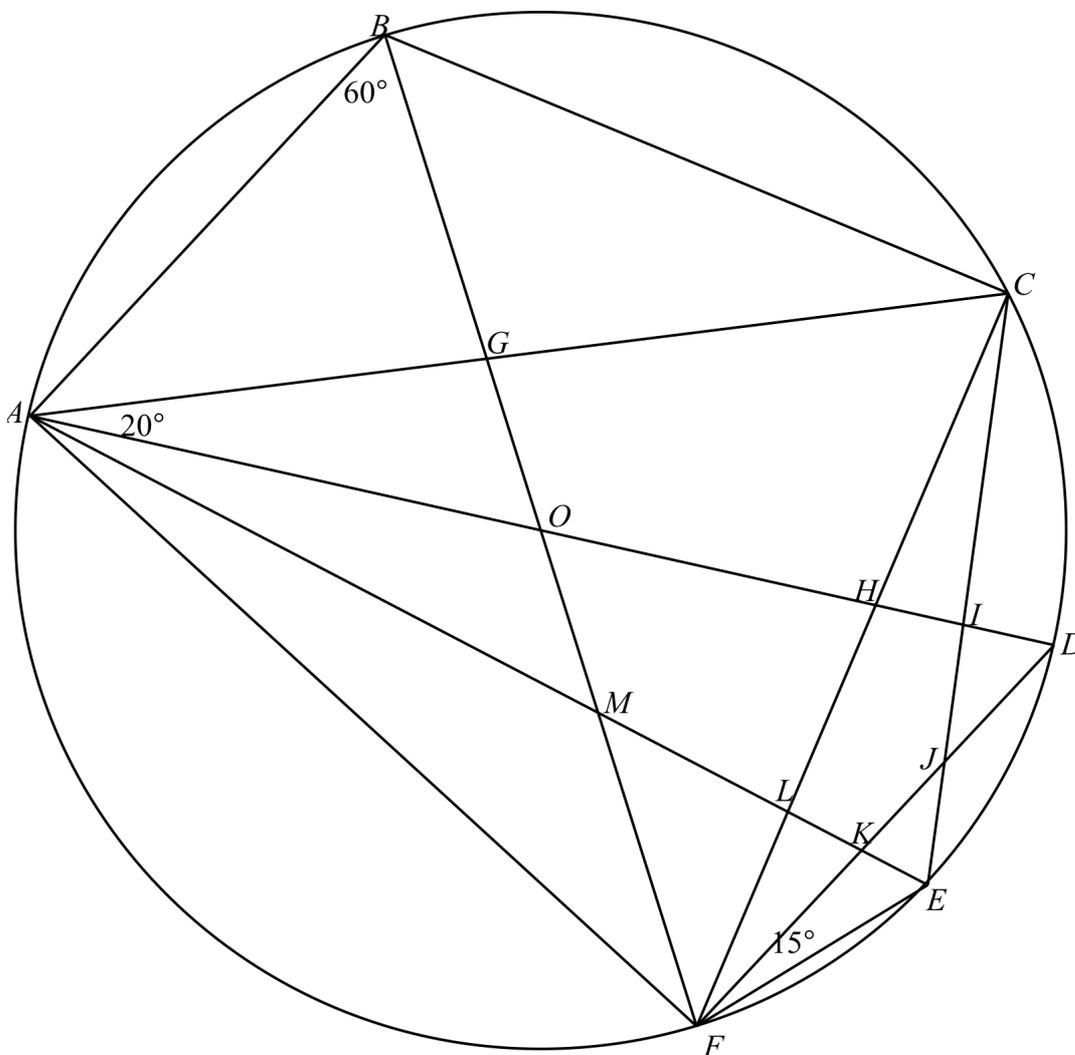


Putting it all together: Student worksheet

<http://topdrawer.aamt.edu.au/Geometric-reasoning/Good-teaching/Looking-beyond-the-lines/Visualising-relationships/Great-angle-chase>



Given:

O is the centre of the circle.
AD and BF are diameters.
The figure is not drawn to scale.

Instructions:

Do not draw in additional lines.
Write in the size of as many angles as possible.
Name any cyclic quadrilaterals.
Name any equal intervals.
Name any equal arcs.

AAMT — TOP DRAWER TEACHERS

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Putting it all together: Answers

Cyclic quadrilaterals:

$CHOG$; $ABCF$; $ABCE$; $ACEF$; $BCEF$

Equal intervals:

$AB = DF = OB = OA = OD = OF$; $BF = AD$

Equal arcs:

$\widehat{EF} = \widehat{ED}$; $\widehat{BD} = \widehat{AF}$; $\widehat{AB} = \widehat{DF}$; $\widehat{AD} = \widehat{BF}$