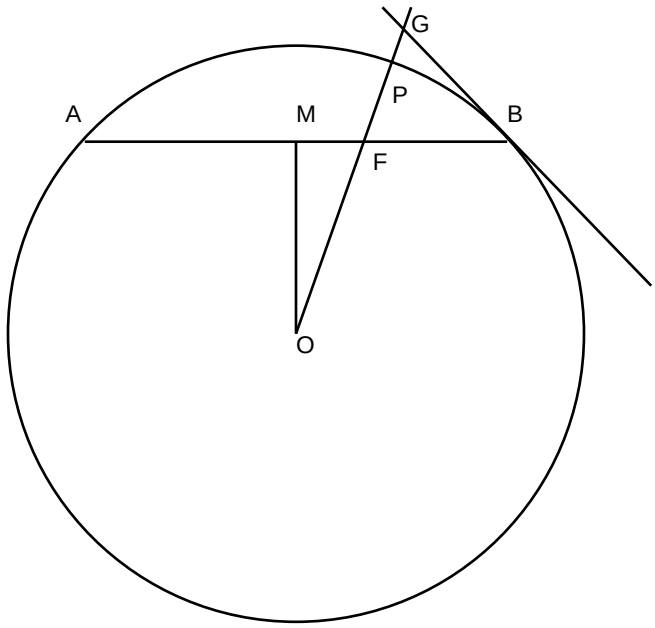
Given a circle with centre O, a chord AB less than the diameter, the tangent at B, and the perpendicular OM from O on AB, it is possible to draw from O a straight line OFP, meeting the chord AB AB in F, the circle in P and the tangent in G, such that FP:BG = D:E where D:E is any given ratio less than BM:MO.



D

E