

[1] Check students' proofs; the proof is similar to the case of two secants.

Students should state that since $\angle B$ and $\angle C$ intercept equal arcs and are equal to half the measure of those arcs, they are congruent. Thus the triangle is isosceles by the definition of isosceles triangles.

The angles appear to be supplementary. Yes, in the quadrilateral formed by the tangents and the radii, the two angles at which the radii intersect the tangents measure 90° , so the remaining pair must be supplementary.