

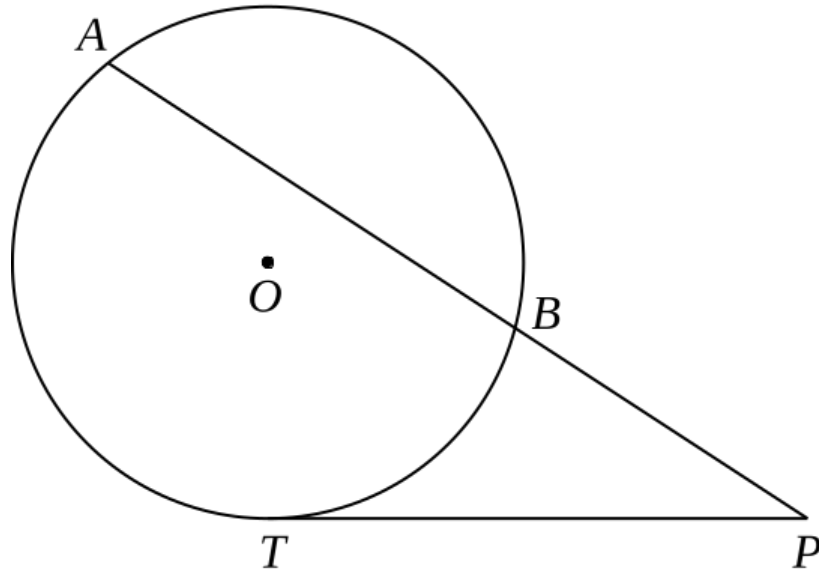
Mathematics 2260H – Euclidean Geometry

TRENT UNIVERSITY, Winter 2026

Assignment #7

Tangents vs. Secants

Due on Friday, 6 March.*



1. Suppose P is a point outside a given circle with centre O . If T is a point on the circle such that PT is tangent to the circle, and A and B are distinct points on the circle such that A , B , and P are collinear, then $|PT|^2 = |PA| \cdot |PB|$. [10]

HINT. This is a close relative of question 2 on Assignment #5.

The Road To Wisdom

The road to wisdom? Well, it's plain
and simple to express:

Err
and err
and err again,
but less
and less
and less.

Yet another grook by Piet Hein.

* Please submit your solutions, preferably as a single pdf, via Blackboard's Assignments module. If that fails, please submit them to the instructor on paper or via email to sbilaniuk@trentu.ca as soon as you can.