

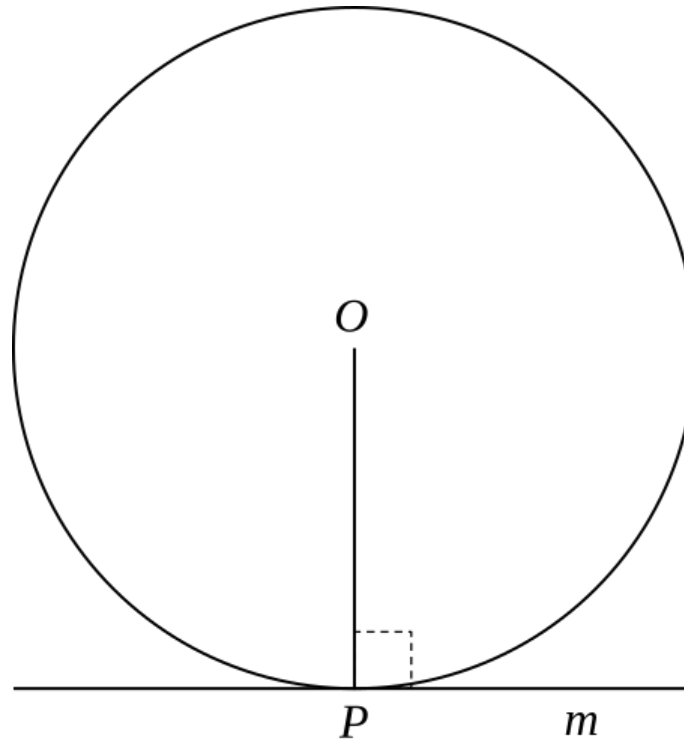
Mathematics 2260H – Euclidean Geometry

TRENT UNIVERSITY, Winter 2026

Assignment #6

Radii Meet Tangents

Due on Friday, 27 February.\*



1. Show that a line  $m$  is tangent at a point  $P$  to a circle with centre  $O$  if and only if it is perpendicular to the radius  $OP$ . [10]

**Last Things First**

Solutions to problems

re easy to find:

the problem's a great

contribution.

What is truly an art

is to wring from your mind

a problem to fit

a solution.

*Another grook by Piet Hein.*

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\* 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](mailto:sbilaniuk@trentu.ca) as soon as you can.