

Unit 8: Circle Geometry

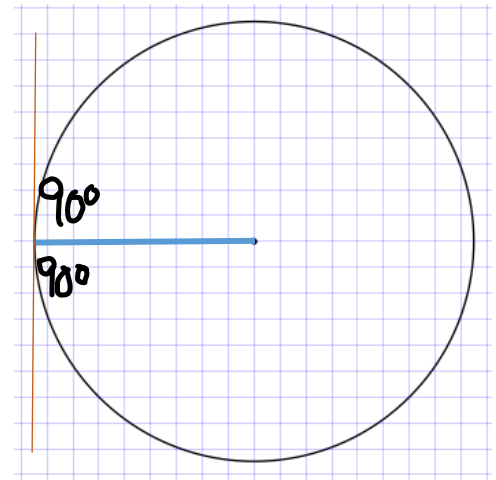
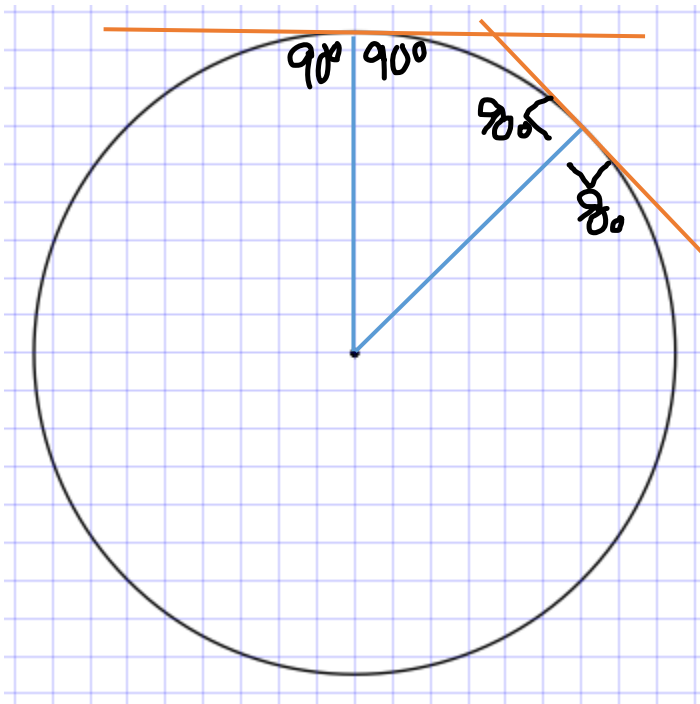
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8.1 Properties of Tangents to a Circle - Notes

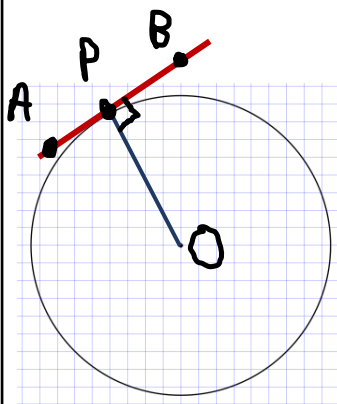
Investigate

- Draw the radius of the circle.
- Draw a line that touches the circle only at the endpoint of the radius.
- Measure the angle between the radius and the line.
- Repeat the previous steps for other radii and lines that touch the circle at an endpoint of a radius. Record your results.
- Repeat the procedure for other circles. Write a statement about what you observed.

The tangent and radius meet at
a 90° angle.



Tangent-Radius Property



A tangent to a circle is perpendicular (meet at a 90° angle) to the radius at the point of tangency. That is $\angle APO = \angle BPO = 90^\circ$