## Getting Started with Geometry

## **Inscribed Angles**

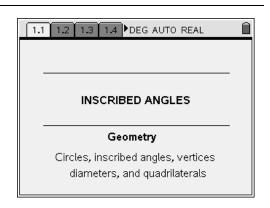
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Name \_\_\_\_\_\_

In this activity, you will explore:

- Inscribed angles in circles
- Diameters and semi-circles
- Inscribed quadrilaterals

Open the file *GeoAct27\_InscribedAngles\_EN.tns* on your handheld and follow along with your teacher to work through the activity. Use this document as a reference and to record your answers.



## Problem 1 - Discover the rules

Go to page 1.2 and press PLAY to animate the open point.

Make a conjecture.

On page 1.4, drag each open point around the circle.

• Make a conjecture.

On page 1.6, press PLAY to animate the open point.

• Make a conjecture. Explain why this makes sense.

On page 1.8, measure each angle of the quadrilateral and find the sum of the opposite angles.

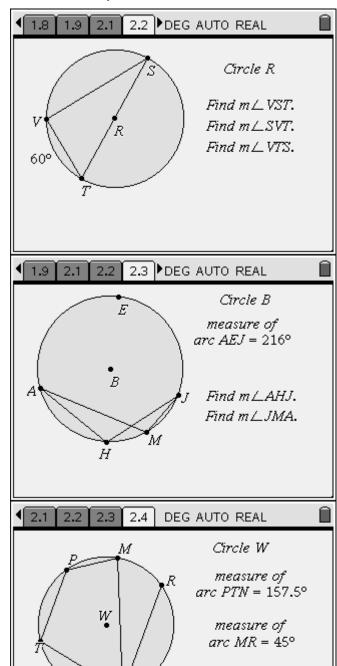
• Make a conjecture. Explain why this makes sense.



## Problem 2 - Use the rules

Solve each problem on pages 2.2, 2.3, and 2.4 by hand.

Then, use tools from the Measurement menu to check your answers.



Find  $m \angle PMN$ ,  $m \angle MNR$ , and  $m \angle PTN$ .