Inscribed Angles
ID: 9687

Name $\qquad$
Class $\qquad$

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.


## II-nspire

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.
$\qquad$
$m \angle S V T=$ $\qquad$
$m \angle V T S=$ $\qquad$

| 1.8 | 1.9 | 2.1 | 2.2 | DEG | auto | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Circle $R$ <br> Find $m \angle V S T$. <br> Find $m \angle S V T$. <br> Find $m \angle V T S$. |  |  |  |  |  |  |

$\qquad$

| 1.9 | 2.1 | 2.2 | 2.3 | DEG AUTO REAL |
| :--- | :--- | :--- | :--- | :--- |

$m \angle J M A=$ $\qquad$


