Name _	
Class _	

## **Problem 1 – Exterior and Remote Interior Angles**

ExteriorandRemoteInteriorAngles.tns

1. Why is  $\angle GED$  called an \_\_\_\_\_?

**Exterior and Remote Interior Angles** 

- 2. Why are  $\angle EDF$  and  $\angle DFE$  called \_\_\_\_\_?
- 3. Move point *D* to four different positions and collect the data in the table below.

Position	m∠GED	m∠EDF	m∠DFE
1			
2			
3			
4			

- 4. How is the measure of  $\angle GED$  related to the measure of  $\angle EDF$ ?
- 5. How is the measure of  $\angle GED$  related to the measure of  $\angle DFE$ ?
- 6. Move point *D* to four different positions and collect the data in the table below.

Position	m∠GED	m∠EDF + m∠DFE
1		
2		
3		
4		

- 7. How is the measure of  $\angle GED$  related to the sum of the measures of  $\angle EDF$  and  $\angle DFE$ ?
- 8. Angle *GED* is an exterior angle. Angles *EDF* and *DFE* are its remote interior angles. What conjectures can you make about an exterior angle and its remote interior angles?