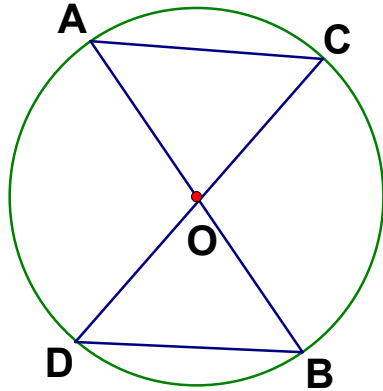


Name \_\_\_\_\_  
Mr. Schlansky

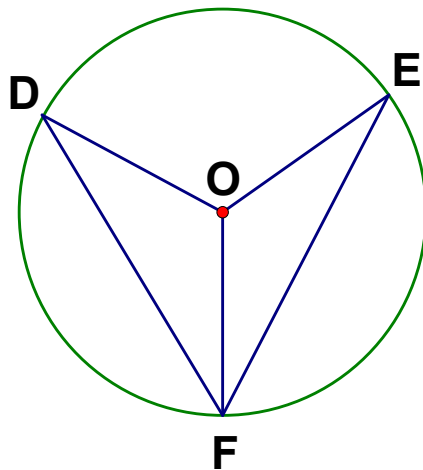
Date \_\_\_\_\_  
Geometry

## ***Congruent Triangle Proofs with Circle Theorems***

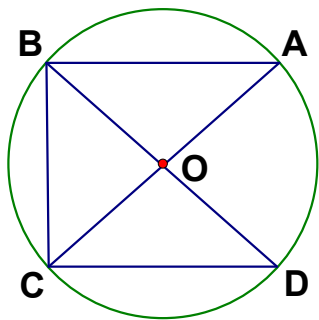
1. Given: Circle O with diameters  $\overline{AOB}$  and  $\overline{COD}$ , and chords  $\overline{AC}$  and  $\overline{DB}$   
Prove:  $\overline{AC} \cong \overline{DB}$



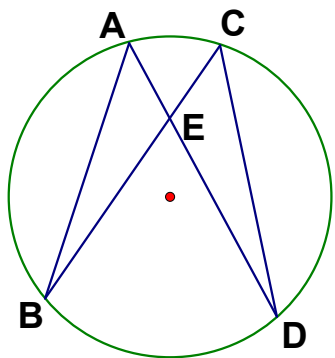
2. In circle O,  $\overline{FD} \cong \overline{FE}$   
Prove:  $\angle ODF \cong \angle OEF$



3. Given: Diameters  $\overline{BOD}$  and  $\overline{COA}$  intersect at the center of the circle O.  
 Prove:  $\triangle ABC \cong \triangle DCB$



4. Given: Chords  $\overline{AD}$  and  $\overline{BC}$  of circle O intersect at E,  $\overline{AB} \cong \overline{CD}$   
 Prove:  $\overline{BC} \cong \overline{AD}$



5. Given: Circle O with diameters  $\overline{MOT}$  and  $\overline{AOH}$ .  
 Prove:  $\overline{MA} \cong \overline{HT}$

