# MATH 8 QUARTER 4 LAS 2B: LESSON: EXTERIOR ANGLE THEOREM & HINGE THEOREM

DIRECTIONS: FOR GUIDE QUESTIONS AND ACTIVITY QUESTIONS, TYPE YOUR ANSWER IN THE BOX PROVIDED, CLICK FINISH THEN CLICK CHECK MY ANSWER.

Guide Questions
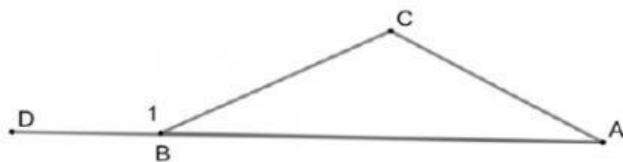
1. What is the exterior angle of ΔABC? _____

2. Write the correct inequality symbol in the box to write two inequalities to describe ∠1.

   ____ ∠1 ☐ ∠A   and   ____ ∠1 ☐ ∠C _____

3. What theorem did you use to come up with your answer in question #2? _____

4. What is the relationship between the exterior angle of a triangle and its two-remote interior angle? _____
   a. Exterior angle is greater than the measure of either remote interior angles.
   b. Exterior angle is less than the measure of either remote interior angles.
   c. Exterior angle is equal to the measure of either remote interior angles.

## Activity 1:

Directions: Complete the statement by writing **<, = or >** in each BOX.

1.) In ΔFAR and ΔDOG
   $\overline{AR} \cong \overline{OG}$ and $\overline{FR} \cong \overline{DG}$
   ∠R _____ ∠G
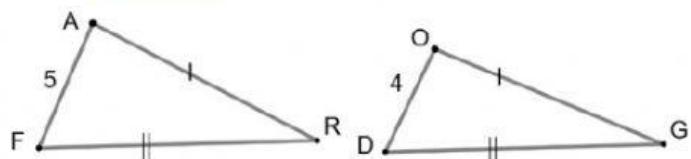
2.) In ΔTOR and ΔBIG
   $\overline{TO} \cong \overline{BI}$ and $\overline{ON} \cong \overline{IG}$
   $\overline{TN}$ _____ $\overline{BG}$

3.) $\overline{AR}$ _____ $\overline{BK}$

4.) ∠FOG ___|___ ∠FOR‾
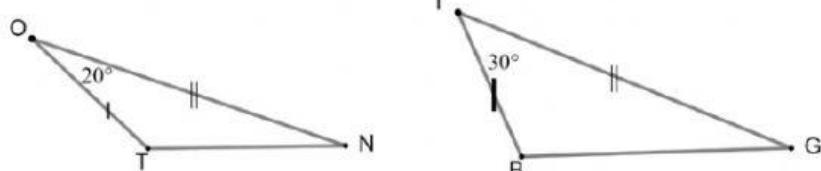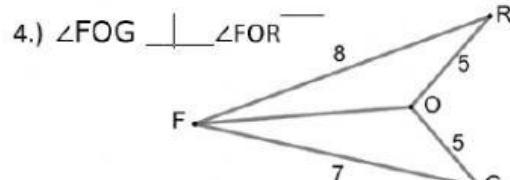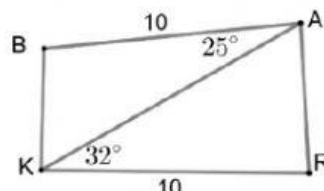
Guide Questions

Which plane is closer to the airport?

   A. Plane 1
   B. Plane 2

Total Score: 10 points