

Class: _____ Name(s): _____

Student Activity Worksheet

Angles to Measure: AGF, FGB, BGH, GHD, DHE, EHC, CHG, and HGA
Answer the following questions pertaining to the construction you completed
using the Geometer's Sketchpad Program:

1. Find Angles FGB and GHD. They are a pair of *corresponding angles*. How do their measures compare?

2. For each angle given below, list its corresponding angle and tell how the measures compare.

a) Angle FGB _____

b) Angle HGA _____

c) Angle BGH _____

d) Drag point E slowly and notice the measures of each pair of corresponding angles. How do their measures compare? _____

e) Complete the following statement: If two parallel lines are cut by a transversal, then the corresponding angles are _____.

3. Find Angles: HGA and GHD. They are a pair of *alternate interior angles*. How do their measures compare? _____

a) Name the other pair of alternate interior angles in the sketch: _____, and _____.

b) Drag point E slowly and notice the measures of both pairs of alternate interior angles. How do their measures compare? _____

c) Complete the following statement: If two parallel lines are cut by a transversal, then the alternate interior angles are _____.

4. Find Angles: AGF and DHE. They are a pair of *alternate exterior angles*. How do their measures compare? _____

a) Name the other pair of alternate exterior angles in the sketch: _____ and _____.

b) Drag point E slowly and notice the measures of both pairs of alternate exterior angles. How do their measures compare? _____

c) Complete the following statement: If two parallel lines are cut by a transversal, then the alternate exterior angles are _____
