

LESSON **Technology Lab Recording Sheet** p. 154

3-2 Explore Parallel Lines and Transversals

Activity

4. Measure the angles formed by the parallel lines and the transversal. Write the angle measures in the chart below. Drag point *E* or *F* and fill in the new angle measures in the chart.

$\angle AGE$	$\angle BGE$	$\angle AGH$	$\angle BGH$	$\angle CHG$	$\angle DHG$	$\angle CHF$	$\angle DHF$

What relationships do you notice about the angle measures?

What conjectures can you make?

Try This

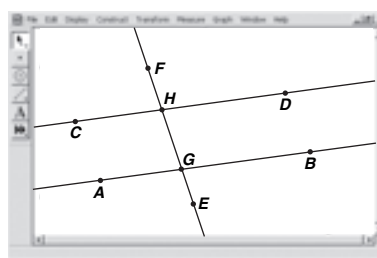
1. Identify the pairs of corresponding angles in the diagram.

What conjecture can you make about their angle measures?

Drag a point in the figure to confirm your conjecture. Can you confirm

your conjecture? _____

2. Repeat steps in the previous problem.



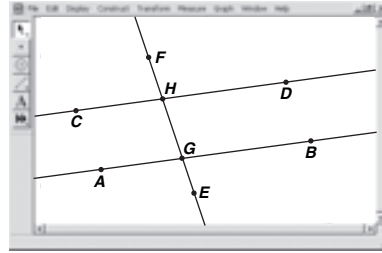
Identify the pairs of **alternate interior angles** in the diagram.

What conjecture can you make about their angle measures?

Drag a point in the figure to confirm your conjecture. Can you confirm

your conjecture? _____

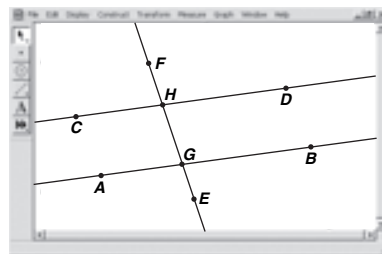
LESSON 3-2 **Technology Lab Recording Sheet**
Explore Parallel Lines and Transversals continued



Identify the pairs of **alternate exterior angles** in the diagram.

What conjecture can you make about their angle measures?

Drag a point in the figure to confirm your conjecture. Can you confirm your conjecture? _____



Identify the pairs of **same-side interior angles** in the diagram.

What conjecture can you make about their angle measures?

Drag a point in the figure to confirm your conjecture. Can you confirm your conjecture? _____

3. Try dragging point C to change the distance between the parallel lines.

What happens to the angle measures in the figure?

What do you think this happens?
