
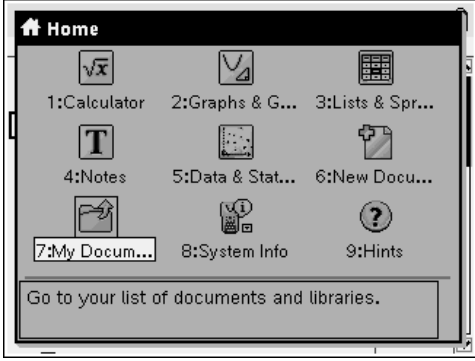

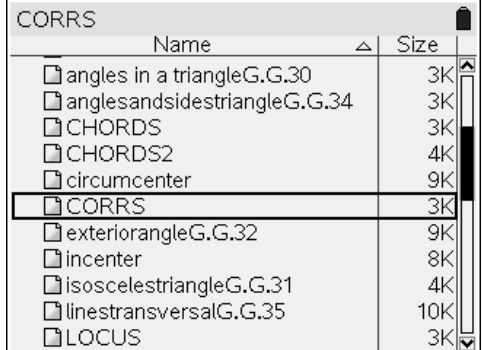

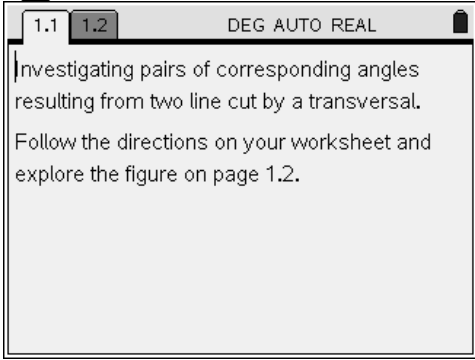

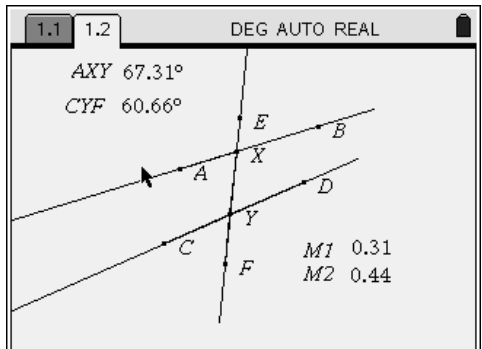


<p>After turning on your handheld press </p> 	<p>Select My documents </p> <p>Open Folder Geometry NY Select CORRS</p> 
<p></p> 	<p></p> 
<p>The measures of $\angle AXY$ and $\angle CYF$ are shown. The slope of \overline{AB} is M1 and the slope of \overline{CD} is M2</p>	<p>You will explore the figure by grabbing and moving different objects.</p> <p>Answer the following questions and draw conclusions from your explorations</p>

Investigating $\angle AXY$ and $\angle CYF$:

1. True or False:

- A) $\angle AXY$ and $\angle CYF$ are interior angles. _____
- B) $\angle AXY$ and $\angle CYF$ are exterior angles. _____
- C) $\angle AXY$ is an interior angle. _____
- D) $\angle CYF$ is an exterior angle. _____
- E) $\angle AXY$ and $\angle CYF$ are adjacent angles. _____
- F) $\angle AXY$ and $\angle CYF$ are on opposite sides of transversal \overline{EF} . _____

G) $\angle AXY$ and $\angle CYF$ are on the same side of transversal \overline{EF} . _____

2. $\angle AXY$ and $\angle CYF$ are _____

A) alternate exterior angles

B) interior angles on the same side of the transversal

C) corresponding angles

D) alternate interior angles

SELECT, GRAB AND MOVE point A

3. What changes? _____

4. What remains the same? _____

SELECT GRAB AND DRAG points B, C, D, E, F

5. What changes? _____

6. What remains the same? _____

7. From your observations what seems to be true about \overline{AB} and \overline{CD} when

$\angle AXY = \angle CYF$? _____

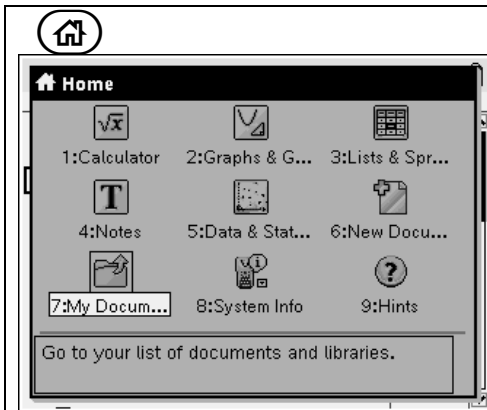
8. From your observations what seems to be true about \overline{AB} and \overline{CD}

when $M1 = M2$? _____

Fill in the blank:

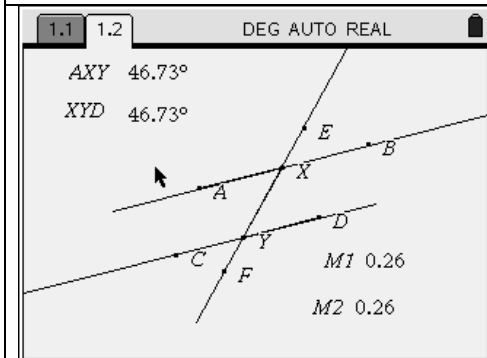
9. If two lines are cut by a transversal and a pair of corresponding angles are equal

then the lines are _____.



Select My documents 7
 Open Folder Geometry NY
 Select CORRS2

CORRS	
Name	Size
<input type="checkbox"/> angles in a triangleG.G.30	3K
<input type="checkbox"/> anglesandsidetriangleG.G.34	3K
<input type="checkbox"/> CHORDS	3K
<input type="checkbox"/> CHORDS2	4K
<input type="checkbox"/> circumcenter	9K
<input type="checkbox"/> CORRS	3K
<input checked="" type="checkbox"/> CORRS2	3K
<input type="checkbox"/> exteriorangleG.G.32	9K
<input type="checkbox"/> incenter	8K
<input type="checkbox"/> isoscelestriangleG.G.31	4K
<input type="checkbox"/> linestransversalG.G.35	10K



Answer the questions below.

1. True or False:

- A) $\angle AXY$ and $\angle CYF$ are interior angles. _____
- B) $\angle AXY$ and $\angle CYF$ are exterior angles. _____
- C) $\angle AXY$ is an interior angle. _____
- D) $\angle CYF$ is an exterior angle. _____
- E) $\angle AXY$ and $\angle CYF$ are adjacent angles. _____
- F) $\angle AXY$ and $\angle CYF$ are on opposite sides of transversal \overline{EF} . _____
- G) $\angle AXY$ and $\angle CYF$ are on the same side of transversal \overline{EF} . _____

2. $\angle AXY$ and $\angle CYF$ are _____

- A) alternate exterior angles
- B) interior angles on the same side of the transversal
- C) corresponding angles
- D) alternate interior angles

SELECT, GRAB AND MOVE **point A**

3. What changes? _____

4. What remains the same? _____

SELECT GRAB AND DRAG **points B, C, D**

5. What changes? _____

6. What remains the same? _____

Fill in the blank:

7. In this exercise \overline{AB} and \overline{CD} were always _____.

8. If two parallel lines are cut by a transversal then _____
