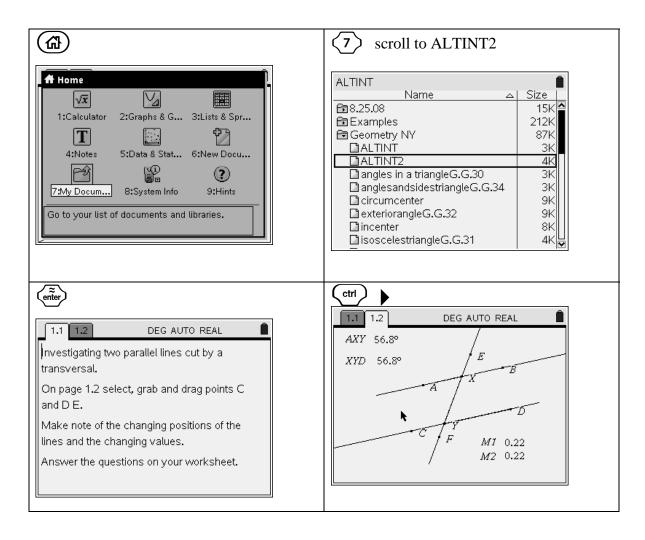


Investigating $\angle AXY$ and $\angle XYD$:	
1. True or False:	
A) $\angle AXY$ and $\angle XYD$ are interior angles.	
B) $\angle AXY$ and $\angle XYD$ are on opposite sides of transversal \overrightarrow{EF}	
2. ∠ <i>AXY</i> and ∠ <i>XYD</i> are	
A) alternate exterior angles	
B) interior angles on 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 \overrightarrow{AB} and \overrightarrow{CD} when $\angle AXY = \angle XYD$?	
8. From your observations what seems to be true about \overrightarrow{AB} and \overrightarrow{CD} when M1 = M2 ?	
Fill in the blank:	
If two lines are cut by a transversal and the alternate interior angles are equal then the	
lines are	



- 1. True or False:
 - A) $\angle AXY$ and $\angle XYD$ are interior angles.
 - B) $\angle AXY$ and $\angle XYD$ are on opposite sides of transversal \overline{EF}
- 2. ∠AXY and ∠XYD 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 C

- 3. What changes?
- 4. What remains the same ? _____

SELECT GRAB AND DRAG point D		
5.	What changes?	
6.	What remains the same ?	
Fill in the blank:		
7.	In this exercise \overrightarrow{AB} and \overrightarrow{CD} were always	
8.	If two parallel lines are cut by a transversal then	