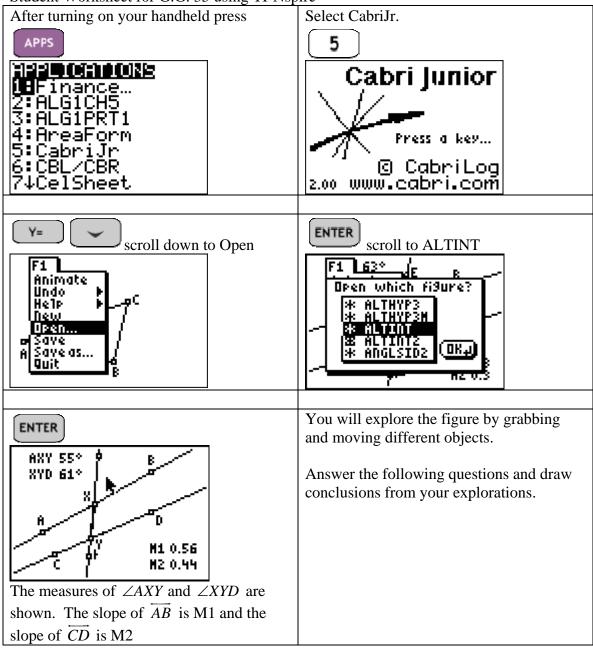
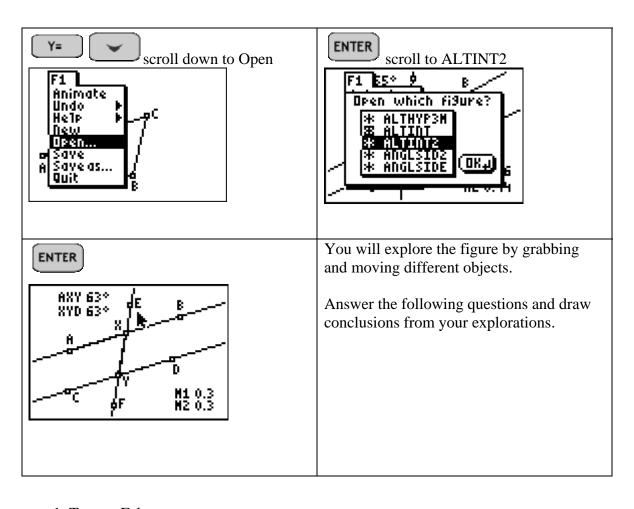
Student Worksheet for G.G. 35 using TI-Nspire



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 \overrightarrow{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 ? _____

SE	LECT GRAB AND DRAG point D
5.	What changes?
6.	What remains the same ?
Fil	l 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