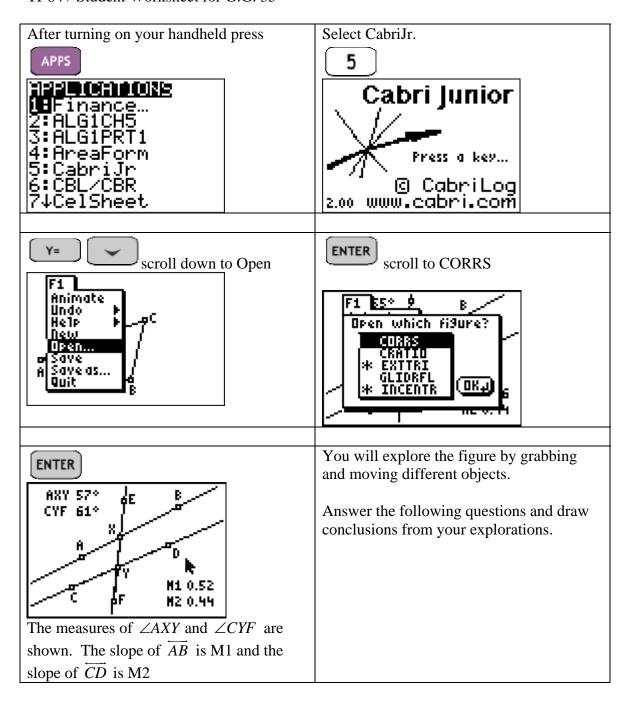
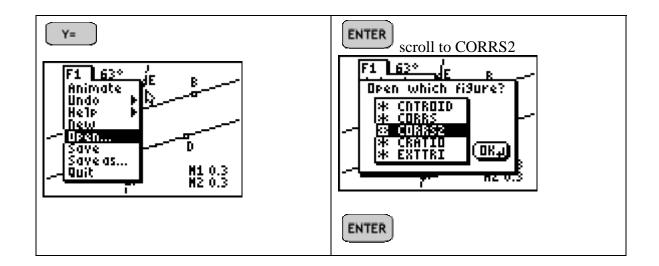
TI-84+ Student Worksheet for G.G. 35



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) ∠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 $\overrightarrow{EF}$ .
G) $\angle AXY$ and $\angle CYF$ are on the same side of transversal $\overrightarrow{EF}$ .
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 $\overrightarrow{AB}$ and $\overrightarrow{CD}$ when
$\angle AXY = \angle CYF$ ?
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 a pair of corresponding angles are equal then the lines are .



## 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  $\overrightarrow{EF}$ .
- G)  $\angle AXY$  and  $\angle CYF$  are on the same side of transversal  $\overrightarrow{EF}$ .
- 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 ?

SE	LECT GRAB AND DRAG points B, C, 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