

Lines with Transversals

NAME: _____

Objectives:

- Angle pairs formed by a transversal line
- Parallel lines and angle pairs
- Angle pairs congruent or supplementary

Use TI-Nspire to explore the above objectives.

Move to new page by clicking ctrl then right arrow on NavPad.

Move to split screen by clicking ctrl then click tab.

Move arrow to a line or point grab and move to investigate angle pairs.

Conjecture:

Do the angles remain congruent or supplementary?

#1-5 Check for congruence or supplements by measuring the angles in the TI-Nspire activity.

1. Name the other sets of corresponding angles.

2. Name the other set of alternate interior angles.

3. Name the other set of alternate exterior angles.

4. Name the other set of same-side interior angles.

5. Name the other set of same-side exterior angles.

6. Name the transversal line two different ways.

7. Name the parallel lines two different ways.

8. Is line \overline{XY} parallel to line \overline{AB} ?

9. Justify your answer on #8.

10. Do the angle pairs remain congruent or supplementary when the lines are not parallel? Justify your answer.
