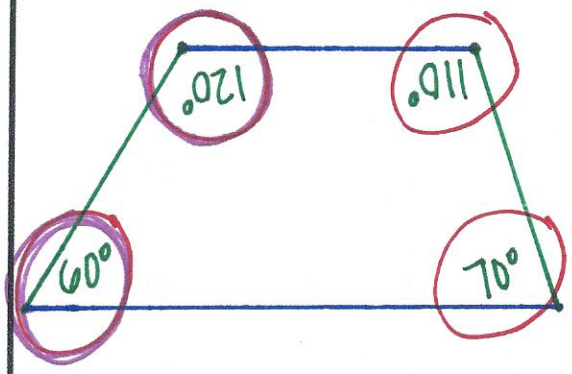
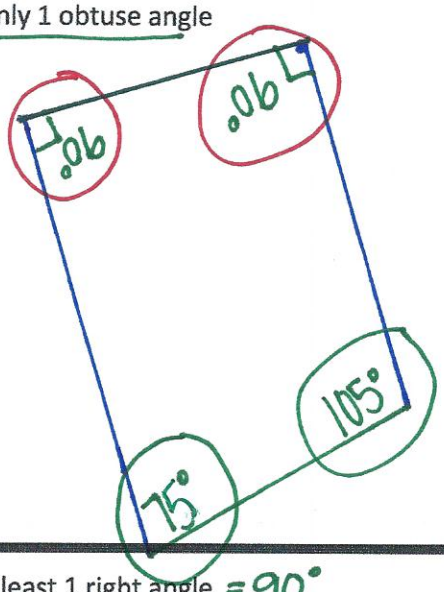
Name Drawings Will Vary Date _____

1. Draw a pair of parallel lines in each box. Then, use the parallel lines to draw a trapezoid with the following:

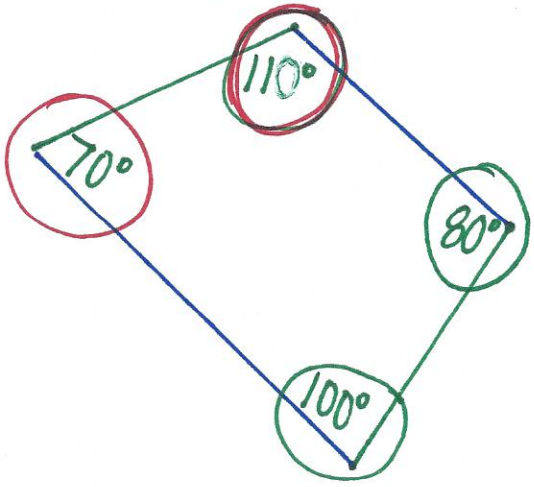
a. No right angles



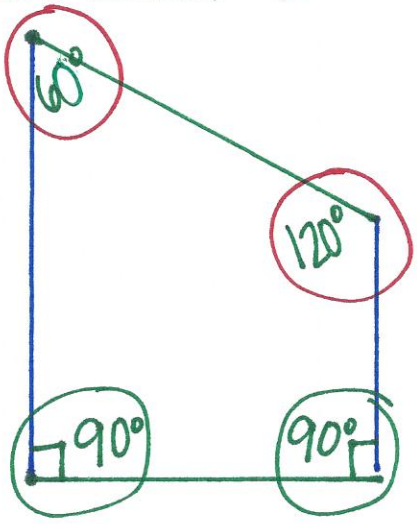
b. Only 1 obtuse angle



c. 2 obtuse angles



d. At least 1 right angle



2. Use the trapezoids you drew to complete the tasks below.
   a. Measure the angles of the trapezoid with your protractor, and record the measurements on the figures. ✓
   b. Use a marker or crayon to circle pairs of angles inside each trapezoid with a sum equal to 180°. Use a different color for each pair. ✓

3. List the properties that are shared by all the trapezoids that you worked with today.

- They have 4 straight sides.
- They are all quadrilaterals.
- All 4 angles add up to 360°.
- They have at least one side of parallel sides.

4. When can a quadrilateral also be called a trapezoid?

A quadrilateral can also be called a trapezoid when it has at least one pair of opposite, parallel sides.

5. Follow the directions to draw one last trapezoid.
   a. Draw a segment $\overline{AB}$ parallel to the bottom of this page that is 5 cm long. ✓
   b. Draw two 55° angles with vertices at A and B so that an isosceles triangle is formed with $\overline{AB}$ as the base of the triangle. ✓
   c. Label the top vertex of your triangle as C. ✓
   d. Use your set square to draw a line parallel to $\overline{AB}$ that intersects both $\overline{AC}$ and $\overline{BC}$. ✓
   e. Shade the trapezoid that you drew. ✓