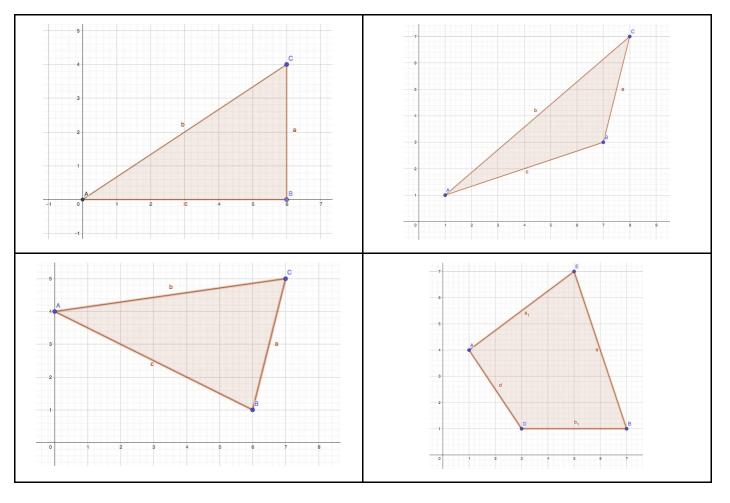
BIG PICTURE of	• How do I determine the measure of angles in geometric shapes, without direct measurement?
this UNIT:	• How do I solve for sides or angles in right triangles?
	• How can I solve problems that require geometric models using right triangles??

## Part 1 - Skills Practice (After Lab 5)

- 1. Determine the angle that the line y = 2x 3 makes with the x-axis. DO NOT use GEOGEBRA!!
- 2. Determine the angle that the line y = -3x + 2 makes with the *x*-axis. DO NOT use GEOGEBRA!!
- 3. Determine the angle that the line 2x 6y = 12 makes with the *x*-axis. DO NOT use GEOGEBRA!!
- 4. A line goes through the points A(-2,3) and B(3,10).
  - a. Determine the slope of this line.
  - b. Determine the equation of this line.
  - c. Find the angle that this line makes with the *x*-axis.
- 5. Here are some diagrams of a triangles and a quadrilateral as created using GEOGEBRA. Determine the measure of all three (or four) angles. DO NOT USE GEOGEBRA to do this work ....



6. (HL EXTENSION Q) The lines 2x + 3y = 6 and y = -3x - 5 intersect at a given point. Find this point as well as the angle between the two lines at this intersection point.