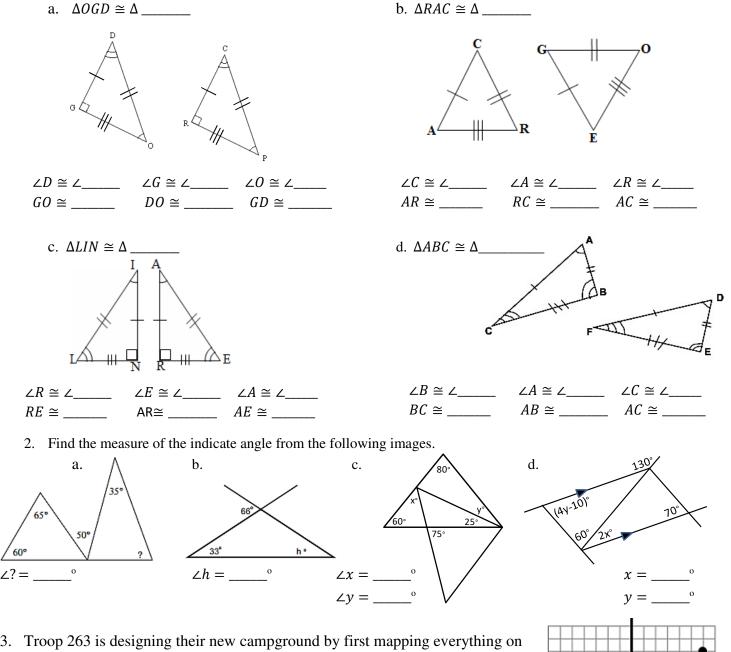
11.1H Distance and Triangle Symbols

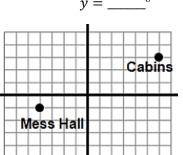
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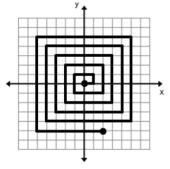
SHOW YOUR WORK AND WORK IN PENCIL

1. Write a congruency statement for the two triangles. Then list the congruent sides and angles.



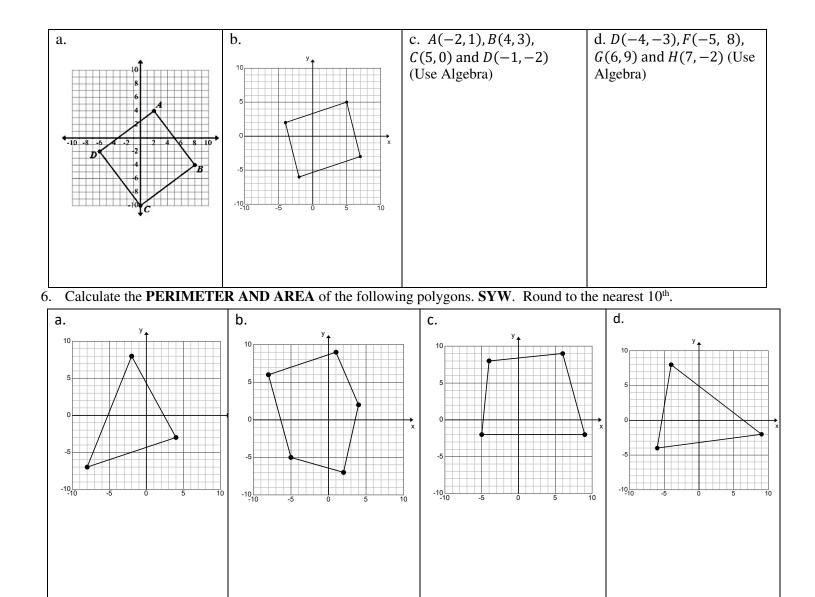
3. Troop 263 is designing their new campground by first mapping everything on a coordinate grid. They have found a location for the mess hall and for their cabins. They decide to make one unit on the graph correspond to 3 yards. How many yards apart are the mess hall and the cabins?





- 4. Katrina traces out the spiral shown in the figure to the left. The spiral begins at the origin.
- A. What is the total distance (in units) is her spiral?

B. What is the shortest distance between her starting point and her ending point? 5. Name the polygon and tell how you know. Mark parallel, perpendicular, and congruent with proper symbols.



- 7. You earn \$600 from your job and decide to invest it with an 8.5% interest rate that compounds annually. How much money will you have in your account after three years? ______ How much will you have in 10 years? ______
- 8. If *l* || *m* and angle 14 and angle 4 are ______ angles and their measures *could* be . . .
 - a. Alternate Exterior; $44 = 57^{\circ}$, $414 = 123^{\circ}$
 - b. Alternate Corresponding $44 = 57^{\circ}$, $414 = 57^{\circ}$
 - c. Alternate Reversal; $44 = 57^{\circ}$, $414 = 123^{\circ}$
 - d. No relationship; $44 = 57^{\circ}$, $414 = 123^{\circ}$

