

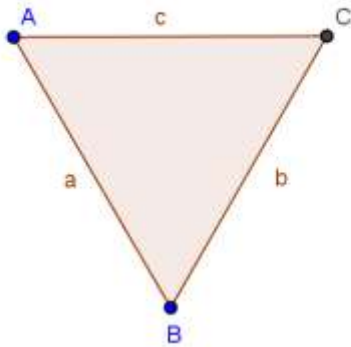
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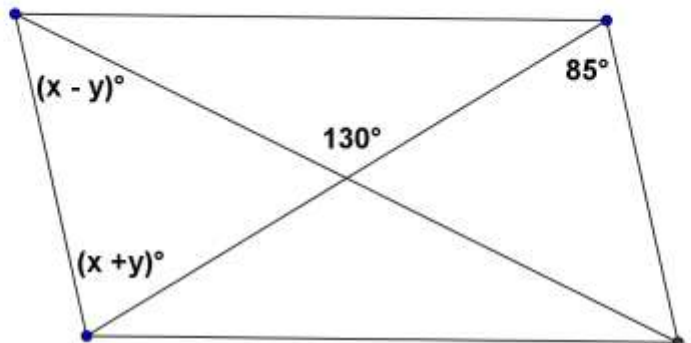
Geometry
Problem Solving #4
Quarter 3
Due Monday February 22nd

1. Determine the equation of a line that passes through the points (10, 20) and (30, 50). Write it in slope-intercept or point-slope form.

2. Determine the area of the triangle below given that each side measures 10 inches. EXPRESS YOUR ANSWER IN ROOT FORM. NO DECIMALS.



3. Determine the value of x and y given that the shape is a parallelogram.



Name: _____

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4. Ryan's family owns a pool that was rectangular in shape. When they fill it each spring, they let the water run for 10 hours before it is completely filled. Johnny's family has a pool that possesses dimensions that are each twice as large as Ryan's pool. Approximately how long will Johnny have to let the water run to fill his pool? EXPLAIN!!

5. Bob and Tom were going to take a road trip. They needed to plan the approximate mileage of the trip so they decided to look at a map. They determined that every 1.5 inches on the map, they would actually travel 75 miles. They measured the first portion of their journey and found that on the map, it would be 5.75 inches. How many miles would they travel?

6. After having a baby, Christy had cut back on her work load and went $\frac{3}{4}$ time. When her child started school, she decided to return to work full time. If she had been earning \$42,000 working $\frac{3}{4}$ time, how much money should she now earn if she returns to full time?

7. Given that the 2 horizontal lines are parallel, determine the values of x , y and z .

