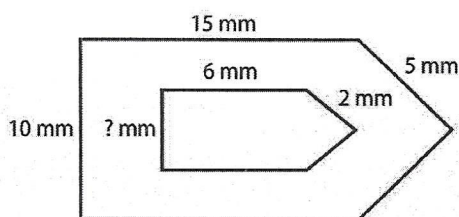
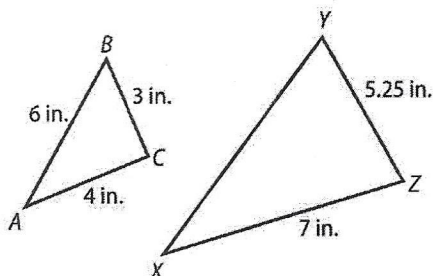


NAME: Joseph Yokum Jr

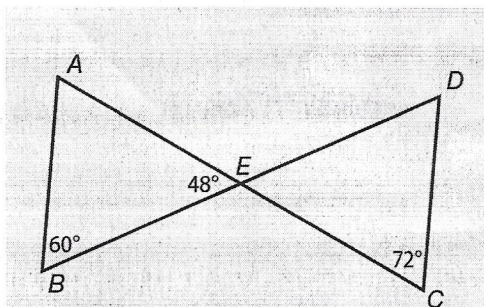
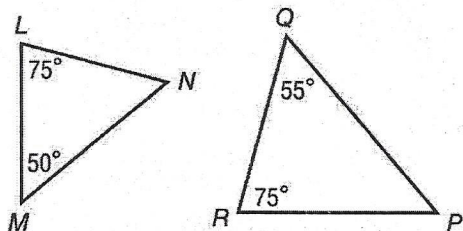
Date: _____ PERIOD: _____

8th Math HW 4.2 A Due Friday 12/16/16Quadrant II

Each pair of polygons are similar. Determine the missing side measures.

Quadrant III

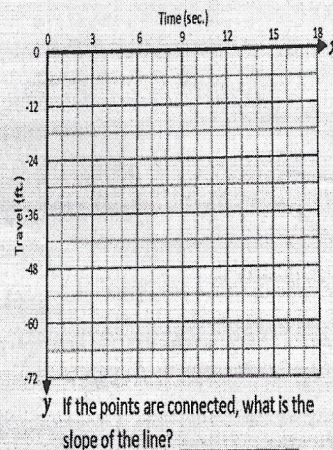
Determine whether the triangles are similar by angle-angle similarity. If so, write a similarity statement.

Quadrant I

5. A submarine descended 24 feet in 6 seconds. Based on this information, complete the table and graph the relationship.

Submarine Movement

Time (sec.)	Travel (ft.)
0	
3	
6	-24
9	
12	
15	



What is the unit rate, or feet traveled in a single second of time? _____

If the points are connected, what is the slope of the line? _____

Quadrant IV

6. The scale factor of a doll house from the actual house is 35:1. If one of the windows of the doll house has a width of $\frac{2}{5}$ inch, what is the measure of the width of the window on the actual house?

7. A 7.5-foot-tall flagpole casts a shadow that is 28 feet long. Find the length, in feet, of a shadow cast by a nearby man who is 5 feet tall.