Name	:		 		_		Date:	 
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Geometry // Mr. Falci

Chapter 5: Relationships in Triangles Extra Practice

1. In a triangle, the intersection of the perpendicular bisectors is called the

Sketch it:

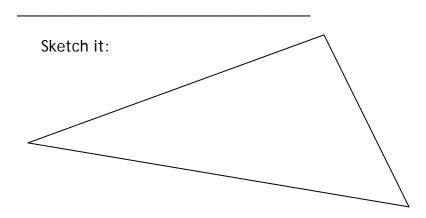
2. In a triangle, the intersection of the altitudes is called the

Sketch it:

3. In a triangle, the intersection of the angle bisectors is called the

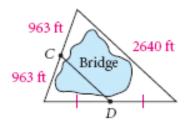
Sketch it:

4. In a triangle, the intersection of the *medians* is called the

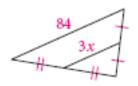


5. Define midsegment: \_\_\_\_\_

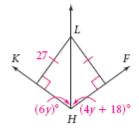
6. Use the information in the diagram to determine the length of the bridge. *The diagram is not to scale.* 



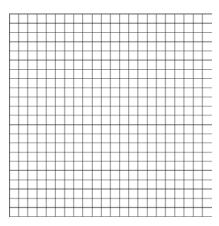
7. Find the value of x.



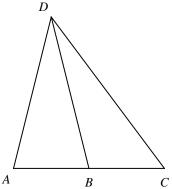
8. Find the value of *y*. The diagram is not to scale.



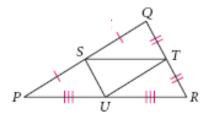
9. Find the center of the circle that you can circumscribe about  $\triangle OPS$  with O(0, 0), P(0, 6), and S(4, 0).



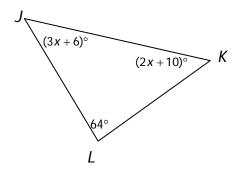
10. Find the length of  $\overline{AB}$ , given that  $\overline{DB}$  is a median of the triangle and AC = 56.



11. Identify 3 sets of parallel segments in the diagram below.



12. List the sides in order from shortest to longest. The diagram is not to scale.



13. Could the lengths 3, 9, 12 represent the sides of a triangle? Why or why not?

14. If two sides of a triangle measure 10 and 23, write an inequality to represent the possible lengths for the third side.

15. Find  $m \angle ACD$ .

