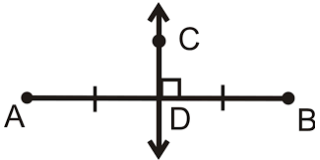
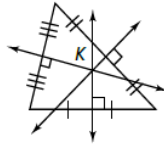


Math 2 Unit 4 Worksheet 2
Perpendicular Bisectors

Name: _____
 Date: _____ Per: _____

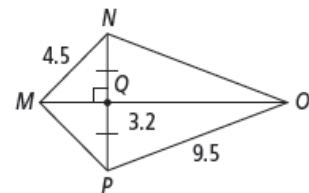
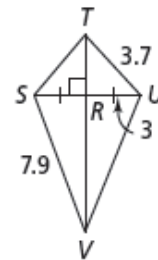
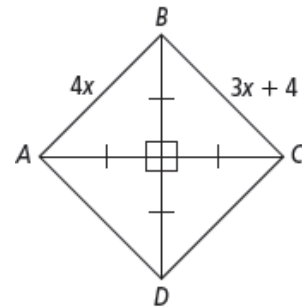
[1-5] Complete the below chart.

1.		\overline{CD} is a _____ of \overline{AB}
2.		Point K is the _____ of the triangle.
3.	Distance Formula	
4.	Midpoint Formula	
5.	Slope Formula	

6. When 3 lines meet all in one point they are called _____. The point where they meet is called the point of _____.
7. Every point on the _____ of a segment is equidistant from the _____ of that segment.

[8-11] Use the figure to the right to answer the set of questions.

8. a) What is the relationship between \overline{AC} and \overline{BD} ?
 b) What is the value of x ?
 c) Find AB .
 d) Find BC .
9. a) From the information given in the figure, how is \overline{TV} related to \overline{SU} ?
 b) Find TS .
 c) Find UV .
 d) Find SU .
10. a) \overline{MO} is the perpendicular bisector of _____
 b) Find MP .
 c) Find NO .
 d) Find NP .

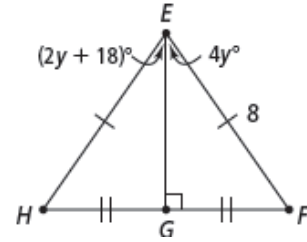


11. a) _____ is the perpendicular bisector of segment _____

b) What are the lengths of \overline{EF} and \overline{EH} ?

c) Find the value of y .

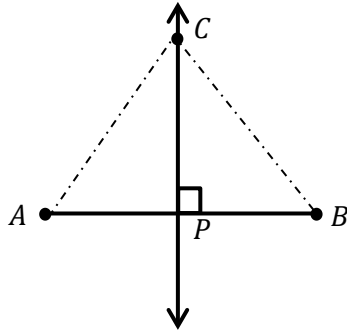
d) Find $m\angle GEH$ and $m\angle GEF$.



12. Make a two-column proof.

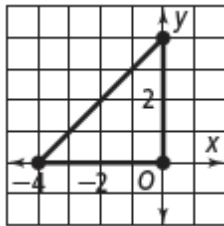
Given: \overline{CP} is a \perp bisector of \overline{AB} .

Prove: $\overline{AC} \cong \overline{BC}$

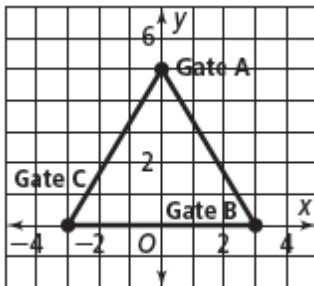


Statement	Reason

13. Find the circumcenter of the triangle.



14. Where should the farmer place the hay bale so that it is equidistant from the three gates?



15. Where should the fire station be placed so that it is equidistant from the grocery store, the hospital, and the police station?

