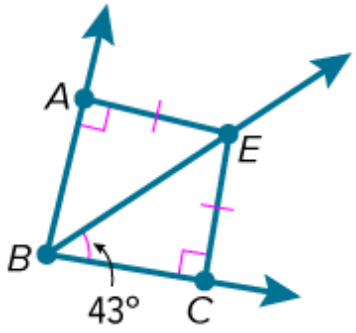
Student Name: _____ Date: _____

Unit 1.2 HW

1) Find $m\angle ABE$.



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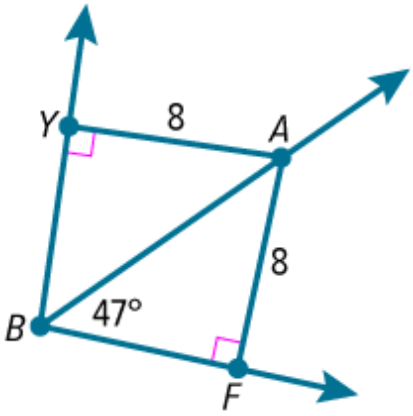
2) Find $m\angle YBA$.



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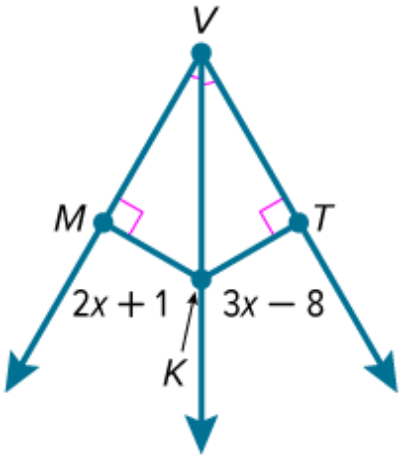
3) Find *MK*.



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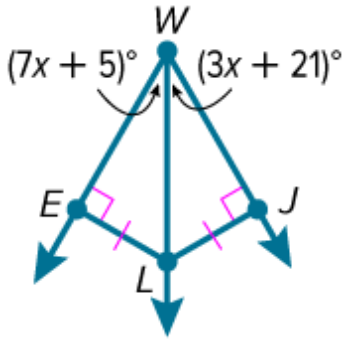
Student Name: _____ Date: _____

Unit 1.2 HW

4) Find $m\angle EWL$.



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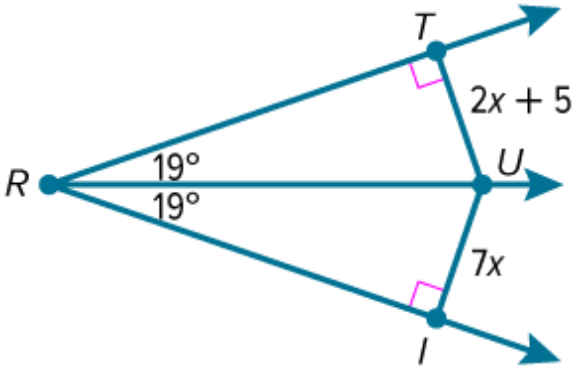
5) Find IU.



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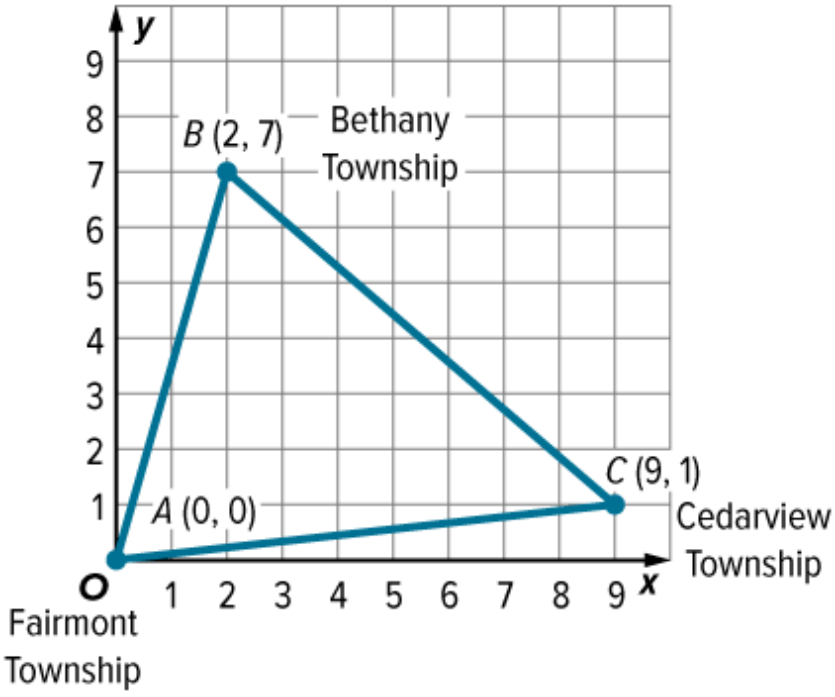
Student Name: _____ Date: _____

Unit 1.2 HW

6) **CITY PLANNING** City planning officials want the location of a new electric car charging station to be equidistant from the three townships shown on the coordinate plane. Find the approximate location of the charging station so that it is equidistant from the roads connecting the townships of Fairmont, Bethany, and Cedarview. Use a compass, straightedge, and separate sheet of paper, or dynamic geometry software to find the approximate location.

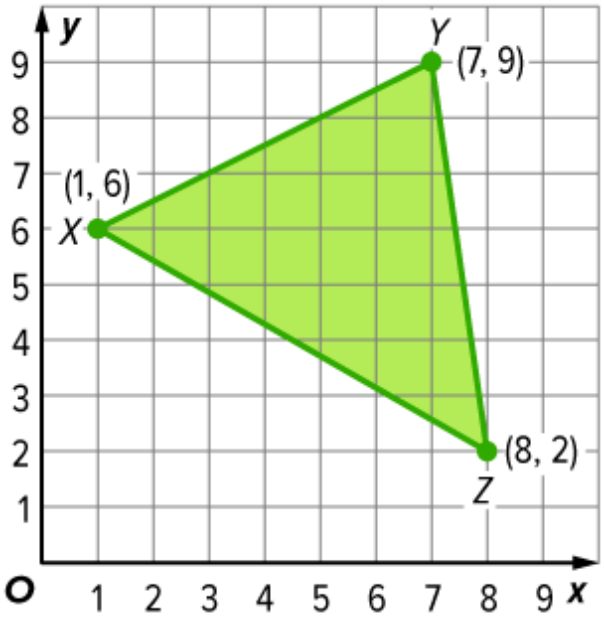


(_____, _____)

Student Name: _____ Date: _____

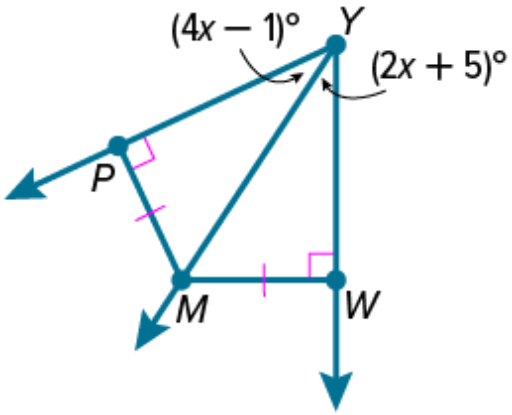
Unit 1.2 HW

7) SCHOOL The alumni foundation will donate a new fountain for the high school's courtyard. The entrances to the courtyard are located at points *X*, *Y*, and *Z*. Find the approximate location of the center of the fountain so that it is equidistant from the sides of the courtyard. Use a compass, straightedge, and separate sheet of paper, or dynamic geometry software to find the approximate location.



(_____, _____)

8) Find $m\angle MYW$.



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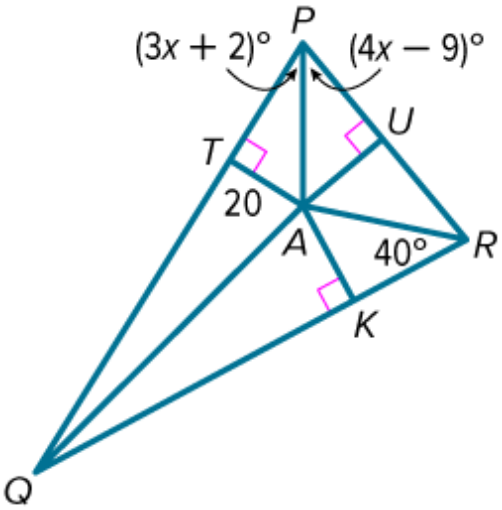
Student Name: _____ Date: _____

Unit 1.2 HW

9) A is the incenter of $\triangle PQR$. Find $m\angle ARU$.



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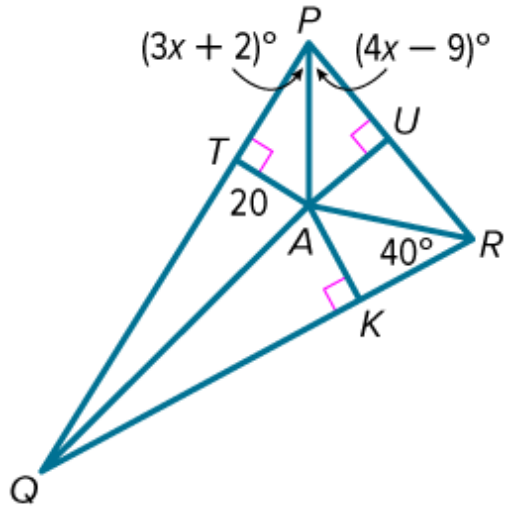
10) A is the incenter of $\triangle PQR$. Find AU.



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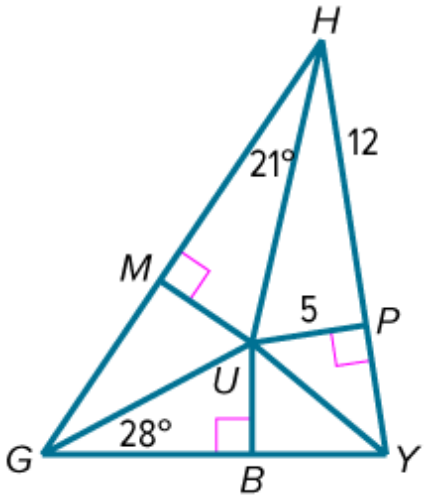
Student Name: _____ Date: _____

Unit 1.2 HW

11) U is the incenter of $\triangle GHY$. Find $m\angle UGM$.



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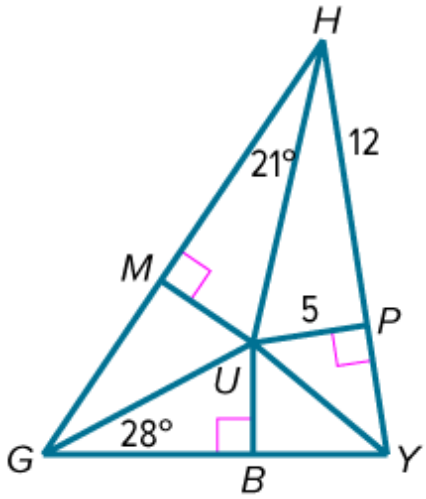
12) U is the incenter of $\triangle GHY$. Find $m\angle PHU$.



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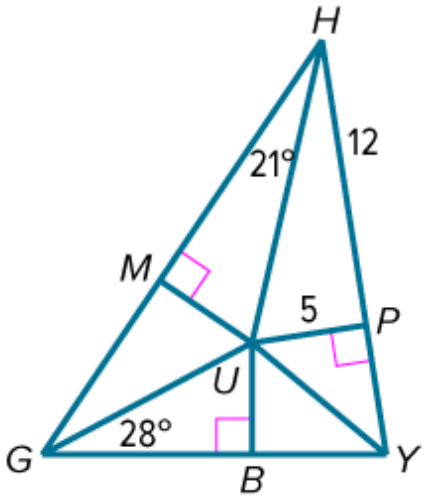
Student Name: _____ Date: _____

Unit 1.2 HW

13) U is the incenter of $\triangle GHY$. Find HU.



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