Name _____ Date _____

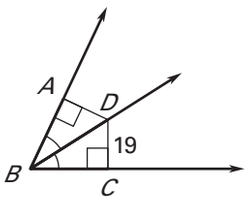
LESSON 5.3

Practice

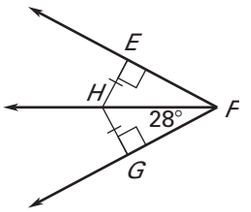
For use with pages 310–316

Use the information in the diagram to find the measure.

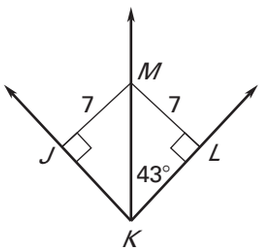
1. Find AD.



2. Find $m\angle EFH$.

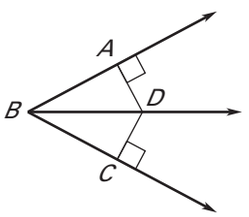


3. Find $m\angle JKL$.

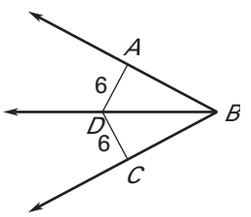


Can you conclude that $\overrightarrow{BD}$ bisects $\angle ABC$? *Explain*.

4.



5.



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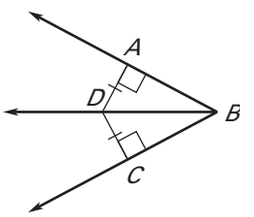
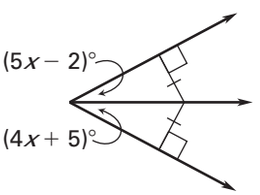


Find the value of *x*.

7.



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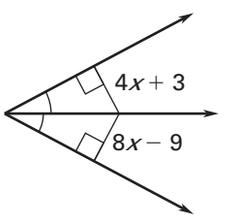

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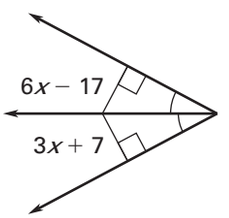

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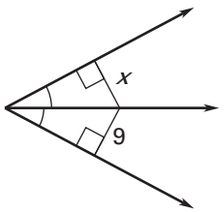
LESSON 5.3

Practice *continued*

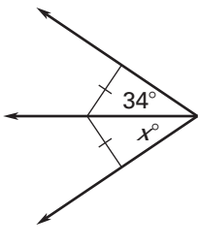
For use with pages 310–316

Can you find the value of *x*? *Explain*.

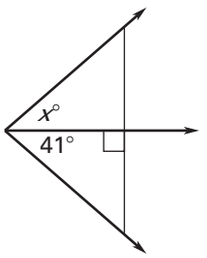
10.



11.

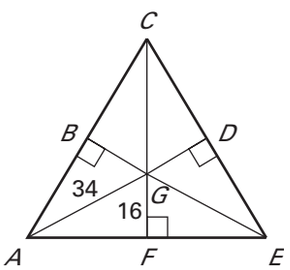


12.

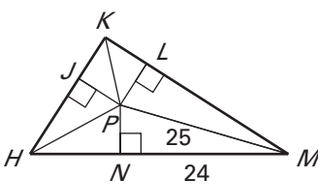


Find the indicated measure.

13. Point G is the incenter of $\triangle ACE$. Find BG.

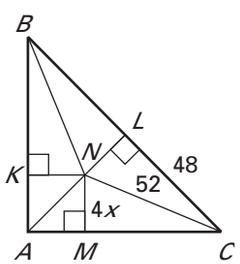


14. Point P is the incenter of $\triangle HKM$. Find JP.

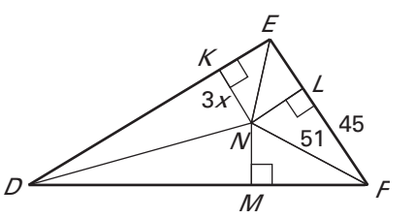


Find the value of *x* that makes *N* the incenter of the triangle.

15.



16.



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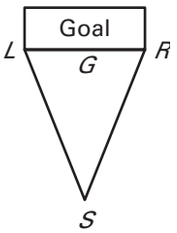
LESSON 5.3

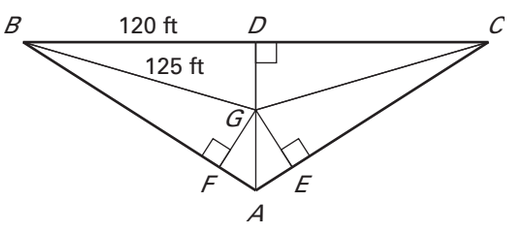
Practice *continued*

For use with pages 310–316

17. **Hockey** You and a friend are playing hockey in your driveway. You are the goalie, and your friend is going to shoot the puck from point *S*. The goal extends from left goalpost *L* to right goalpost *R*. Where should you position yourself (point *G*) to have the best chance to prevent your friend from scoring a goal? *Explain.*



18. **Monument** You are building a monument in a triangular park. You want the monument to be the same distance from each edge of the park. Use the figure with incenter *G* to determine how far from point *D* you should build the monument.



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