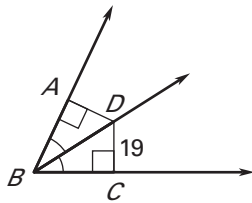


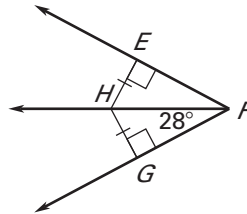
LESSON 5.3 Practice
For use with pages 310–316

Use the information in the diagram to find the measure.

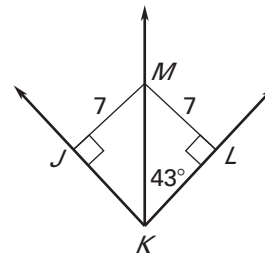
1. Find AD .



2. Find $m\angle EFH$.

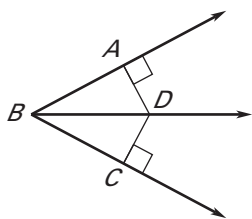


3. Find $m\angle JKL$.

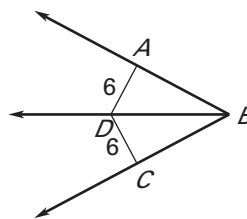


Can you conclude that \overrightarrow{BD} bisects $\angle ABC$? Explain.

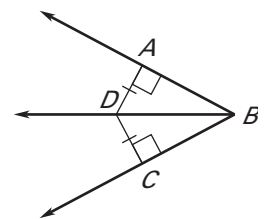
4.



5.

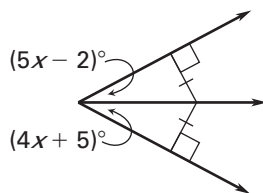


6.

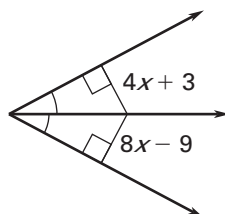


Find the value of x .

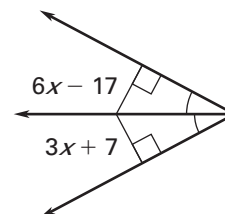
7.



8.



9.

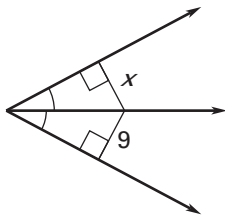


LESSON
5.3

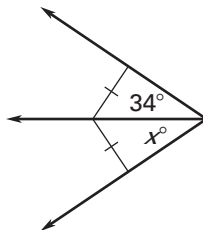
Practice *continued*
For use with pages 310–316

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

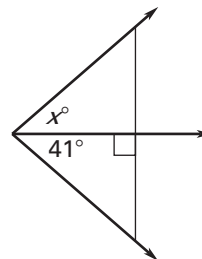
10.



11.

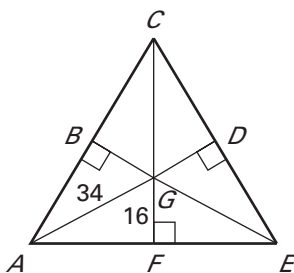


12.

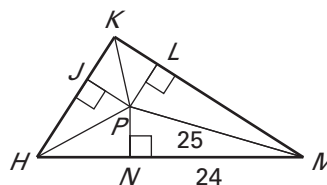


Find the indicated measure.

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

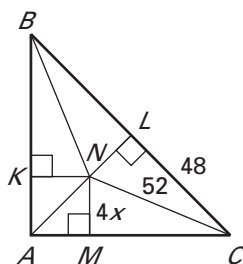


14. Point P is the incenter of $\triangle HKM$. Find JP .

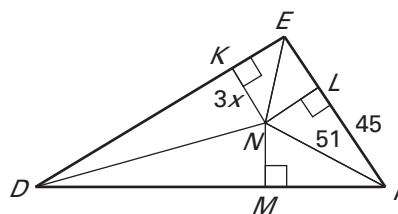


Find the value of x that makes N the incenter of the triangle.

15.

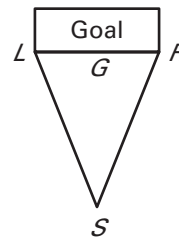


16.



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.

