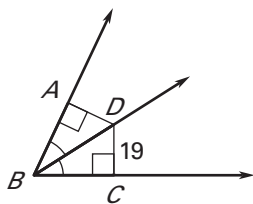
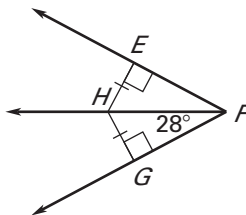


LESSON
5.3
Practice B
For use with pages 310–316
Use the information in the diagram to find the measure.

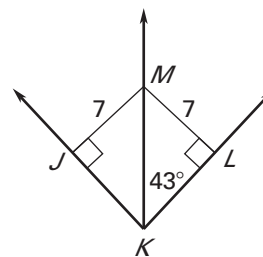
1. Find
- AD
- .



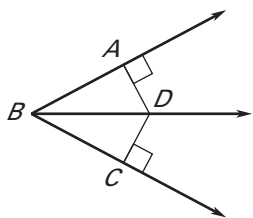
2. Find
- $m\angle EFH$
- .



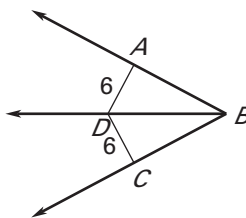
3. Find
- $m\angle JKL$
- .


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

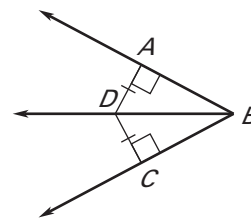
- 4.



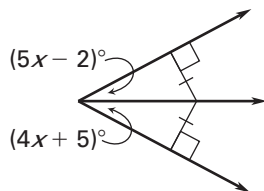
- 5.



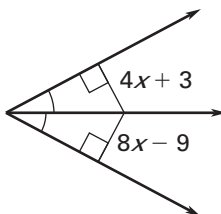
- 6.


Find the value of x .

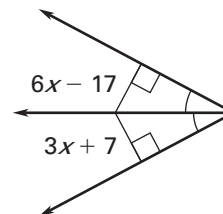
- 7.



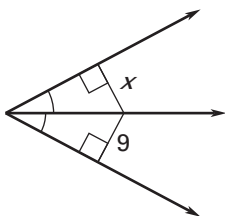
- 8.



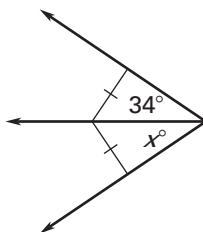
- 9.


Can you find the value of x ? Explain.

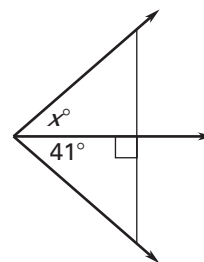
- 10.



- 11.



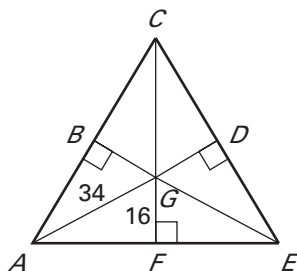
- 12.



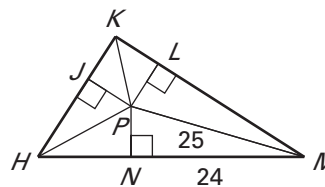
LESSON 5.3 **Practice B** *continued*
For use with pages 310–316

Find the indicated measure.

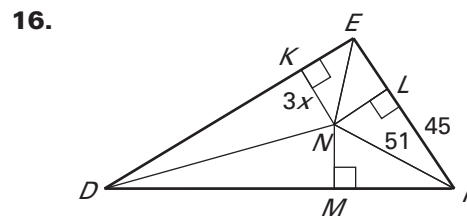
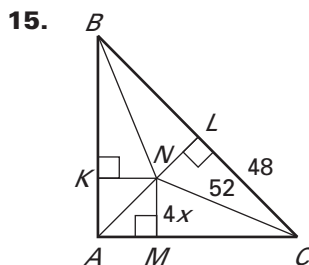
- 13.** Point G is the incenter of $\triangle ACE$. Find BG .



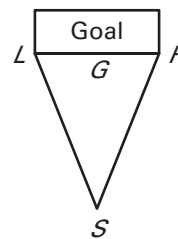
- 14.** Point P is the incenter of $\triangle HKM$. Find JP .



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



- 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.

