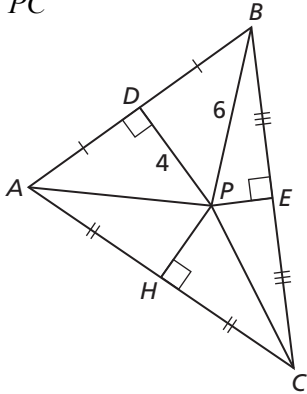


6.3

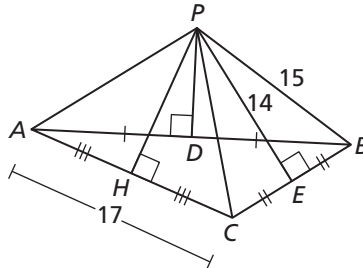
Practice B

In Exercises 1–3, find the indicated measure. Tell which theorem you used.

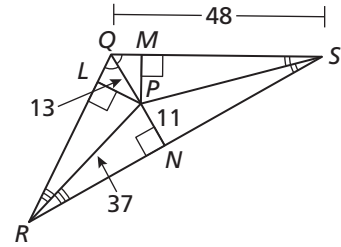
1. PC



2. AP



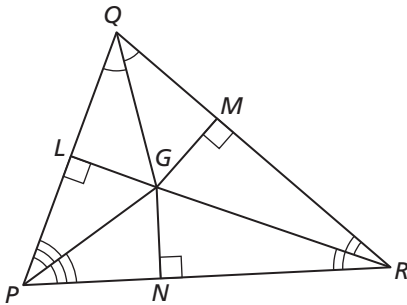
3. MP



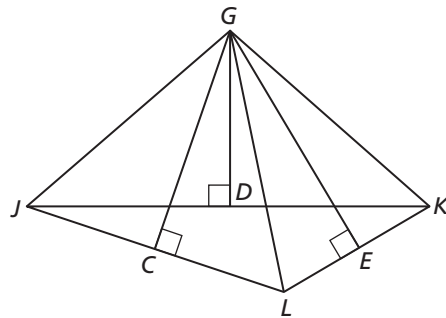
4. Find the coordinates of the circumcenter of the triangle with the vertices $A(4, 12)$, $B(14, 6)$, and $C(-6, 2)$.

In Exercises 5 and 6, use the diagram and the given information to find the indicated measures.

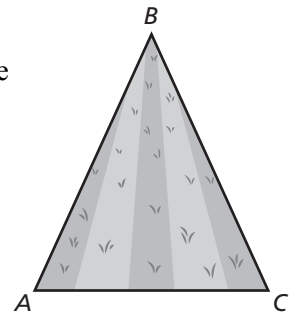
5. $LG = 6x - 14$, $NG = -3x + 22$
Find MG and NG .



6. $GL = 4x - 2$, $GE = 3x + 2$, $GK = 2x + 8$
Find GJ and GE .



7. You are using a rotary sprinkler to water the triangular lawn.
- Explain how to locate the sprinkler the same distance from each side of the triangular lawn.
 - Explain how to locate the sprinkler the same distance from each vertex of the triangular lawn.
 - Which is closer to vertex B , the *incenter* or the *circumcenter*? Explain your reasoning.



8. Explain when the circumcenter of a triangle lies outside the triangle.

9. In the figure at the right, what value of x makes G the incenter of $\triangle JKL$?

