

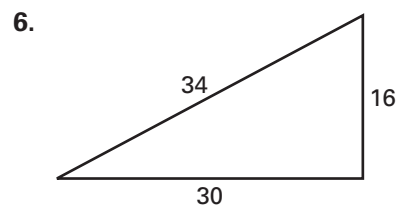
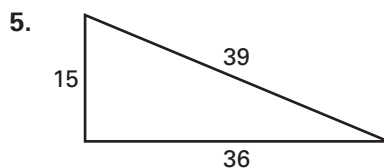
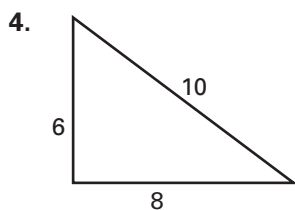
**Practice A**

For use with pages 199–205

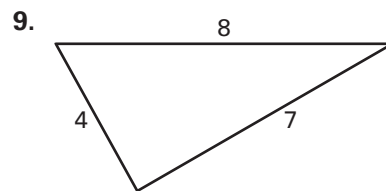
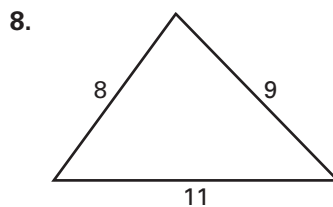
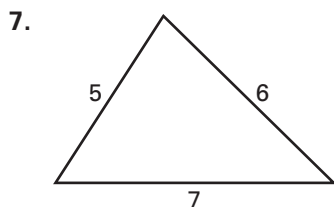
Supply the missing symbol of equality or inequality to complete the statement.

1. In  $\triangle ABC$  with longest side  $c$ : If  $c^2$  ?  $a^2 + b^2$ , then  $\triangle ABC$  is acute.
2. In  $\triangle ABC$  with longest side  $c$ : If  $c^2$  ?  $a^2 + b^2$ , then  $\triangle ABC$  is right.
3. In  $\triangle ABC$  with longest side  $c$ : If  $c^2$  ?  $a^2 + b^2$ , then  $\triangle ABC$  is obtuse.

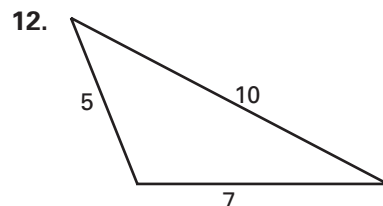
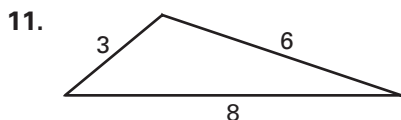
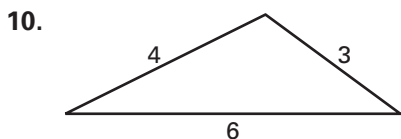
Show that the triangle is a right triangle.



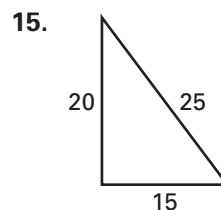
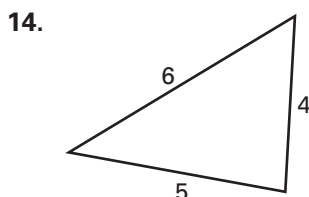
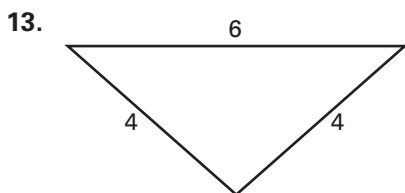
Show that the triangle is an acute triangle.



Show that the triangle is an obtuse triangle.



Classify the triangle as *acute*, *right*, or *obtuse*.



16. The diagram at the right shows the distances between three cities in the state of Michigan. Jackson is directly west of Ann Arbor. Is Flint directly north of Ann Arbor? Explain your answer.

