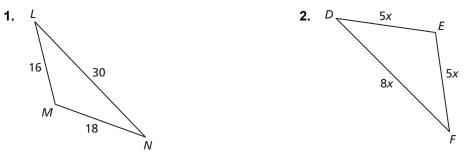
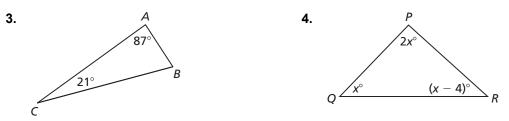


In Exercises 1 and 2, list the angles of the given triangle from smallest to largest.



In Exercises 3 and 4, list the sides of the given triangle from shortest to longest.

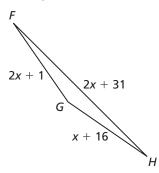


In Exercises 5 and 6, is it possible to construct a triangle with the given side lengths? Explain.

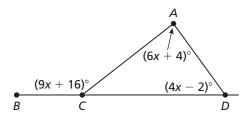
5. 15, 37, 53



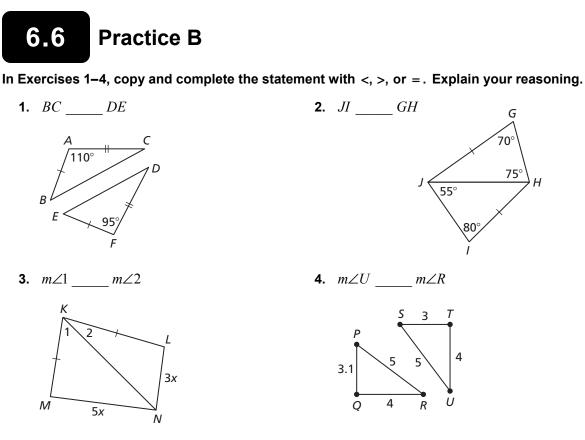
7. Describe the possible values of *x* in the figure shown.



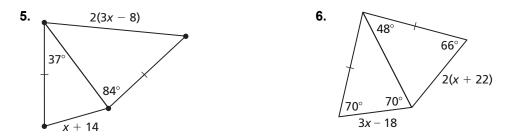
8. List the angles of the given triangle from smallest to largest. Explain your reasoning.



9. The shortest distance between two points is a straight line. Explain this statement in terms of the Triangle Inequality Theorem (Theorem 6.11).



In Exercises 5 and 6, write and solve an inequality for the possible values of x.



- 7. Two sailboats started at the same location. Sailboat *A* traveled 5 miles west, then turned 29° toward the north and continued for 8 miles. Sailboat *B* first went south for 8 miles, then turned 51° toward the east and continued for 5 miles. Which sailboat was farther from the starting point? Explain your reasoning.
- **8.** How are the Hinge Theorem (Theorem 6.12) and the SAS Congruence Theorem (Theorem 5.5) similar? How are they different? Explain your reasoning.