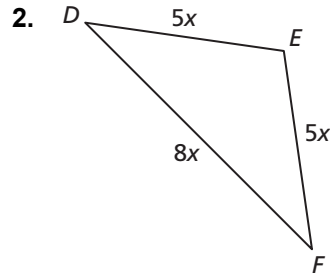
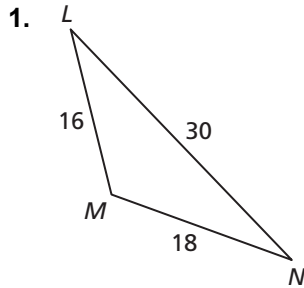


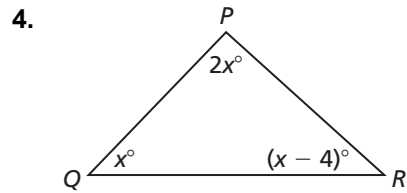
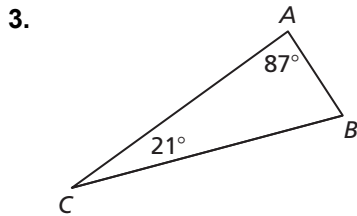
# 6.6

## Practice A

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.



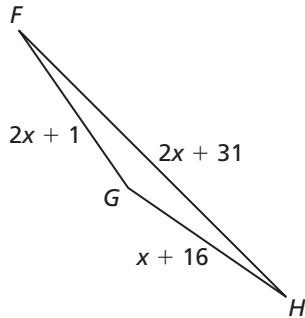
In Exercises 5 and 6, is it possible to construct a triangle with the given side lengths? If not, explain why not.

5. 15, 37, 53

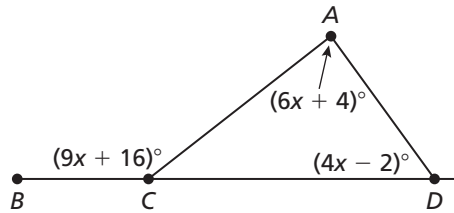
6. 9, 16, 8

7. Write an indirect proof that a triangle has at most one obtuse angle.

8. Describe the possible values of  $x$  in the figure shown.



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



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