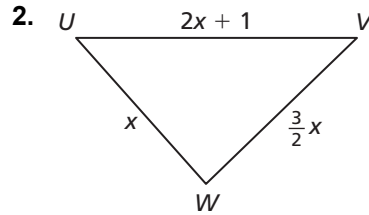
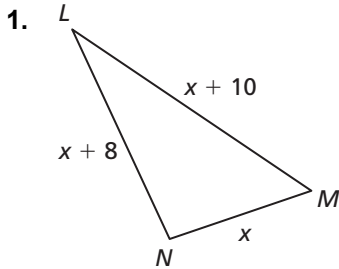


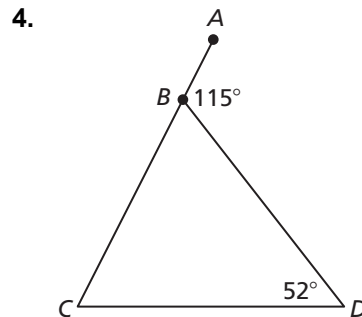
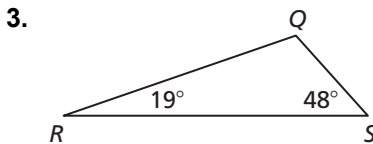
# 6.6

## Practice B

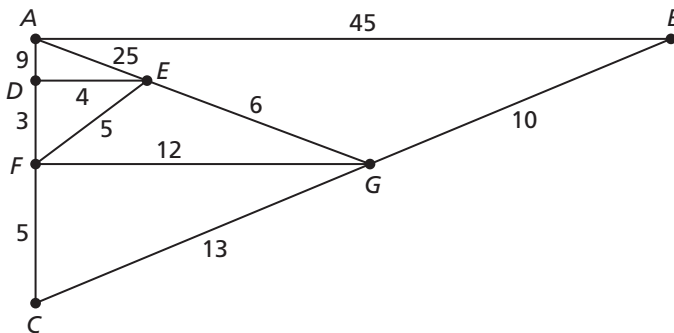
In Exercises 1 and 2, list the angles of the given triangle from smallest to largest.



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



- Write an indirect proof that a right triangle has exactly two acute angles.
- Is it possible to construct a triangle with side lengths  $5(2x - 6)$ ,  $3x + 80$ , and  $x^2 + 41$  if  $x = 9$ ? Explain.
- The figure shows several triangles, with labeled side lengths. Which of the triangles are labeled correctly? Explain.



- Your friend claims that if you are given the three angle measures of a triangle, you can construct a triangle that obeys the Triangle Inequality Theorem, even if you are not given any of the side lengths. Is your friend correct? Explain your reasoning.