Practice 7-3

Find the value of \( x \) in each triangle.

1. \( \begin{align*} x & = 30^\circ - 25^\circ = 5^\circ \end{align*} \)

2. \( \begin{align*} x & = 180^\circ - 62^\circ - 51^\circ = 67^\circ \end{align*} \)

3. \( \begin{align*} x & = 180^\circ - 53^\circ - 3^\circ = 124^\circ \end{align*} \)

4. \( \begin{align*} x & = 180^\circ - 54^\circ - 54^\circ = 72^\circ \end{align*} \)

Classify each triangle.

5. The measures of two angles are 53° and 76°.

6. Two sides have the same length.

7. All three sides have the same length.

8. The measures of the angles of a triangle are 40°, 50°, and 90°.
   
   a. Classify the triangle by its angles.

   b. Can the triangle be equilateral? Why or why not?

   c. Can the triangle be isosceles? Why or why not?