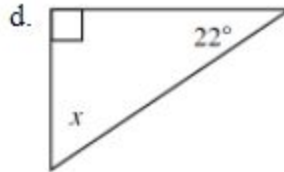
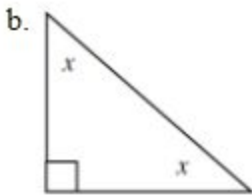
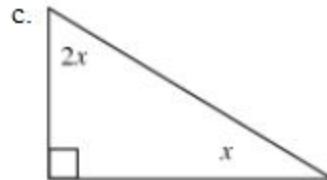
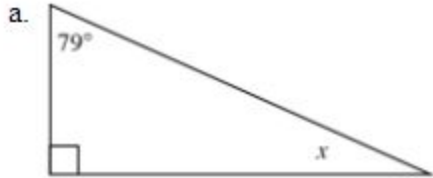


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### 4.1.1 - Constant Ratios in Right Triangles Homework

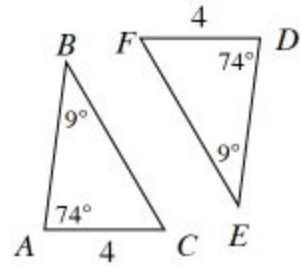
1. Use what you know about the angles of a triangle to find the value of  $x$  and the angles in each triangle below.



2. Use the triangles below to answer the questions that follow.

a. Are the triangles similar? Which similarity condition is used to prove this?

b. Are the triangles also congruent? Explain.



3. Assume that the shapes below are similar. Find the values of  $x$ ,  $y$ , and  $z$ .

