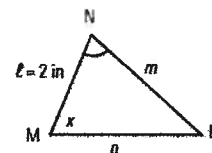
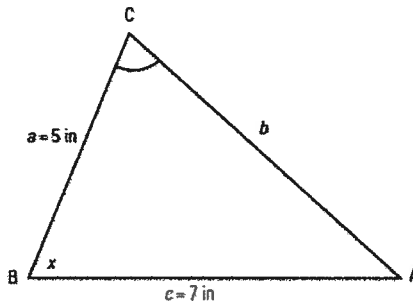
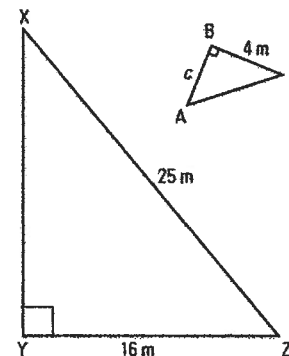
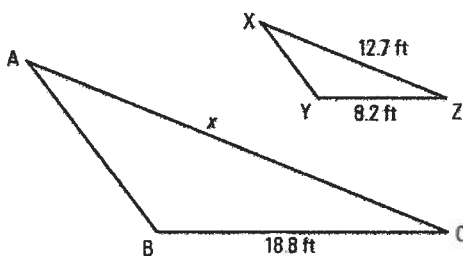
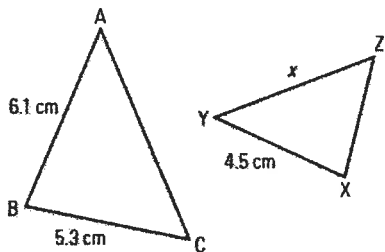


1. Given the two triangles below, find the length of n .



b) Are these triangles similar?

2. In each of the diagrams below, $\triangle ABC$ is similar to $\triangle XYZ$. Find the length of the indicated side (to one decimal place).

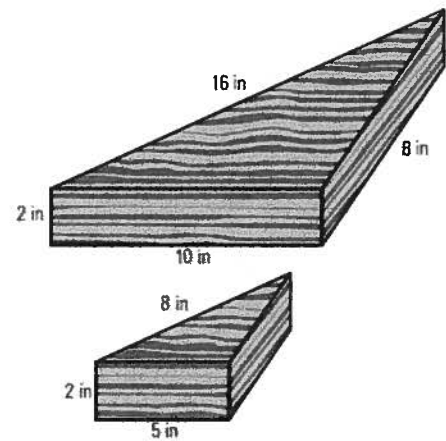


3. Gladis thinks that any two isosceles triangles will be similar. Use examples to prove or disprove her belief.

An isosceles triangle has two sides equal in length, and two angles of equal measure.

4. Ethel notices that a 4-m pole casts a shadow of 8 m, and a second pole casts a shadow of 22 m. How tall is the second pole? (please provide a diagram)

5. Midge has cut out two triangular shapes from a block of wood, as shown below. She says that the two shapes are similar. Is she correct? Show your calculations.



6. Julian is visiting the Manitoba Legislative Building in Winnipeg, where he sees the statue of Louis Riel. Use the information in the diagram to find the height of the statue. Round your answer to the nearest whole number.

