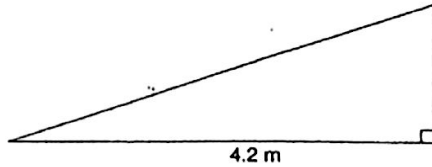


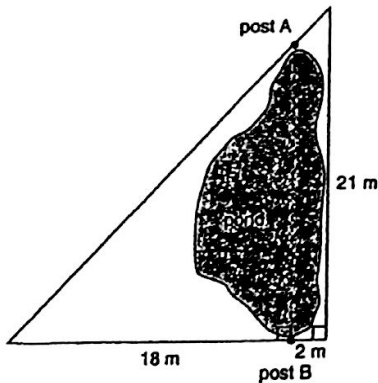
Apply Similar Triangles

1. A tall building casts a shadow 9.2 m long. At the same time, a 1.8-m tall person casts a shadow 0.4 m long. How tall is the building?

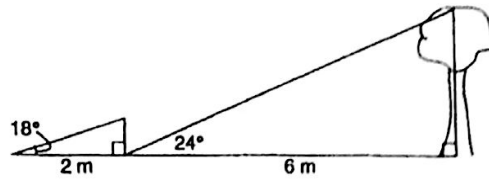
2. A loading ramp is built so that it rises 20 cm vertically for each metre horizontally. What is the vertical height of the ramp shown in the diagram?



3. A park designer placed survey posts as shown in the diagram below. Measurements were made as indicated. How far apart are the posts?



4. Explain why similar triangles cannot be used to measure the height of the tree in the diagram.



5.

Bill wanted to find the width of a small river. To do this he constructed the following two similar triangles, ABC and DEC. How wide was the river according to his calculations?

