

1. Find each of the following using your calculator (4 decimal places)

$$\tan 5^\circ = \underline{\hspace{2cm}}$$

$$\tan 11^\circ = \underline{\hspace{2cm}}$$

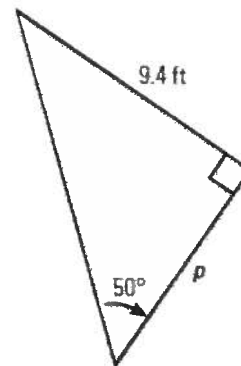
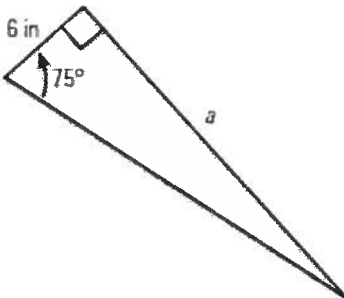
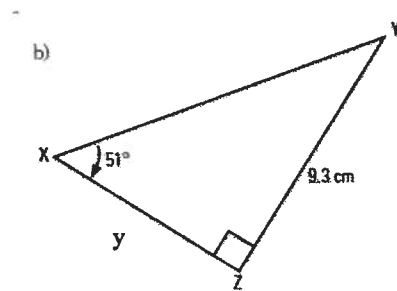
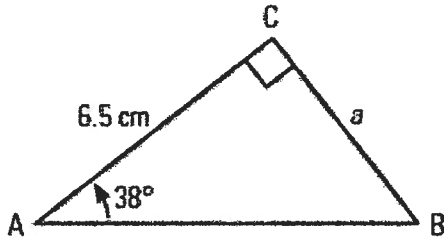
$$\tan 26^\circ = \underline{\hspace{2cm}}$$

$$\tan 48^\circ = \underline{\hspace{2cm}}$$

$$\tan 53^\circ = \underline{\hspace{2cm}}$$

$$\tan 89^\circ = \underline{\hspace{2cm}}$$

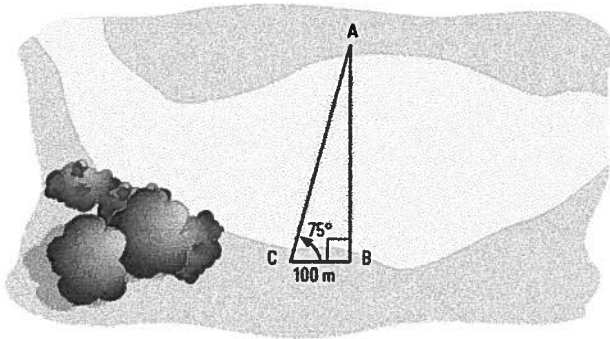
2. Find the length of the missing sides.



3. How far from the base of the house is the foot of a ladder if the angle of elevation is 70° and it reaches 15 feet up the side of the house?

4. About how tall is a tower if the angle of depression from its top to point 75 m. from the base is 62° ?

5. Determine the distance, AB, across the river, given the following measurements



6. When sand is piled onto a flat surface, it forms a cone. If the pile is 8 m wide, and the angle between the ground and the slope of the pile is 28° , what is the height of the pile?

