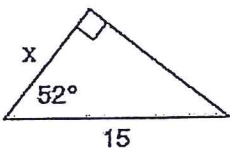
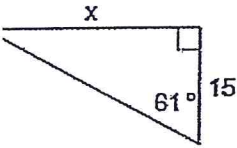
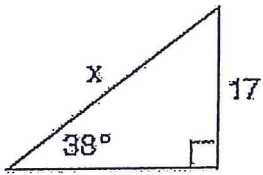
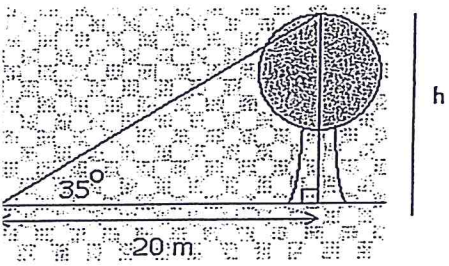
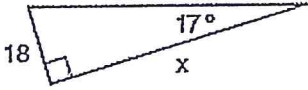
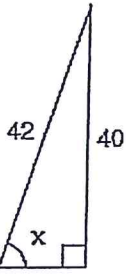
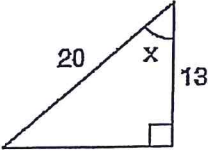
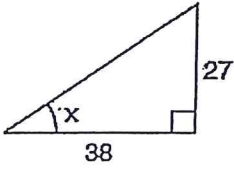
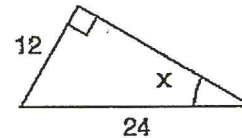
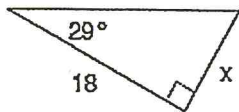
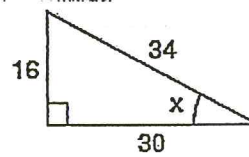
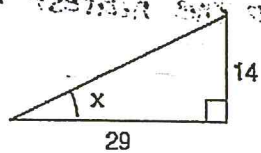


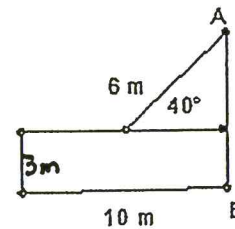
Use the trigonometric ratios to solve for the missing variable. Round all answers to the nearest tenth.





A damaged tree is supported by a guy wire 10.0 m long. The wire makes an angle of  $61^\circ$  with the ground. Calculate the height at which the guy wire is attached to the tree.

2. Find the length of AB.



A ladder 5 m long, leaning against a vertical wall makes an angle of  $65^\circ$  with the ground.

- How high on the wall does the ladder reach?
- How far is the foot of the ladder from the wall?
- What angle does the ladder make with the wall?