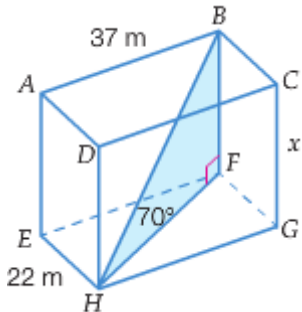


Year Ten Trigonometry Homework – Sheet 3 Term 4

Name: _____

Due Date: _____

1. Find the value of x .

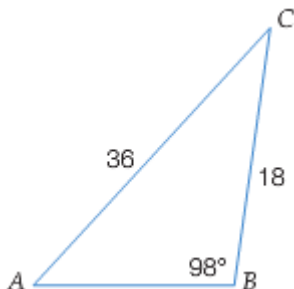


2. The longest straw that can fit into a cylindrical soft-drink can is 15.7 cm. If the can has a radius of 36 mm,

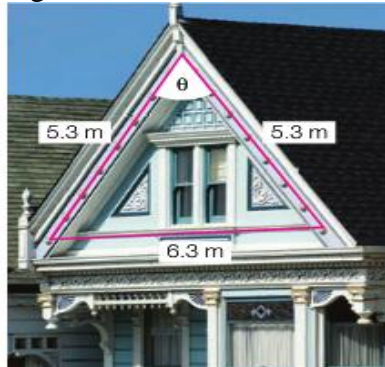
a) what is the angle that the straw makes with the base of the can?

b) the height of the can?

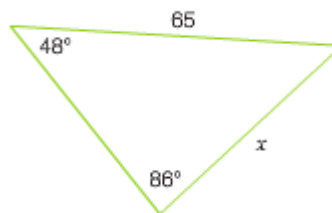
3. Calculate the value of angle of $\angle CAB$.



4. Calculate the pitch of the roof, to the nearest degree,



5. Find the value of x .



6. Kaila is running an orienteering course. She runs 1200m to the first checkpoint on a bearing of $S53^\circ W$. At this checkpoint she is instructed to run another 900m on a bearing of $N68^\circ W$ to the second checkpoint.

a) Show this on a diagram.

b) How far west is Kaila from her starting point?

b) How far north or south is Kaila from her starting point?