

Think Trig!

Question #1

What is the area of a triangle with $a = 10.2$ cm, $b = 12.8$ cm and $\angle C = 83^\circ$?

Question #2

Susan looks up to the top of a 20 m pole with an angle of elevation of 15° . Ben looks up to the top of the same pole with an angle of elevation of 23° . Mackenzie watches, in awe, and observes that Ben and Susan are standing exactly 12 m apart. Find the angle at the base of the pole.

Question #3

Marty sights the top of a building at an angle of elevation of 20° . From a point 30 m closer to the building, the angle of elevation is 35° . Find the height of the building.

