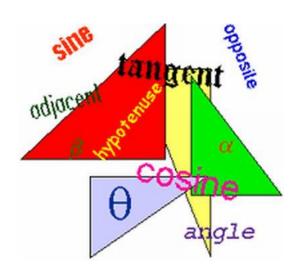
Think Trig!

Question #1

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

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.