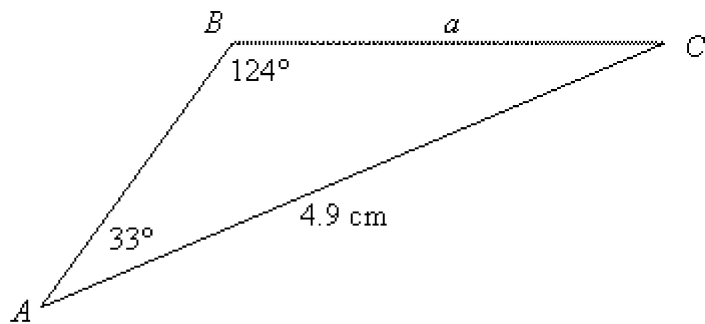
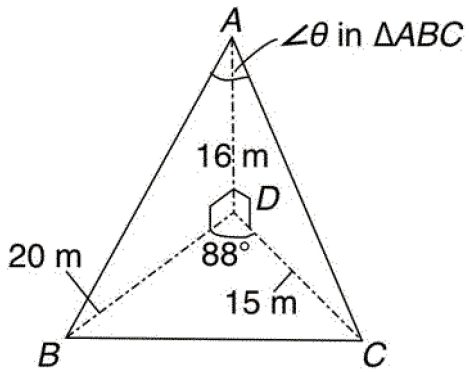


8. Prove the identity $\frac{\sin(\theta) \times \tan(\theta)}{\sec(\theta)} = 1 - \cos^2(\theta)$

9. Determine the length of a to the nearest tenth of a cm.



10. Determine angle, θ .



11. Jim is looking at the roof of a new house from the front. He notices that the roof is triangular in shape with a base 13.6 m . The left side is 8.0 m long and makes an angle of 70° with the base of the roof. Determine the length of the right side of the roof. Be sure to first make a sketch.