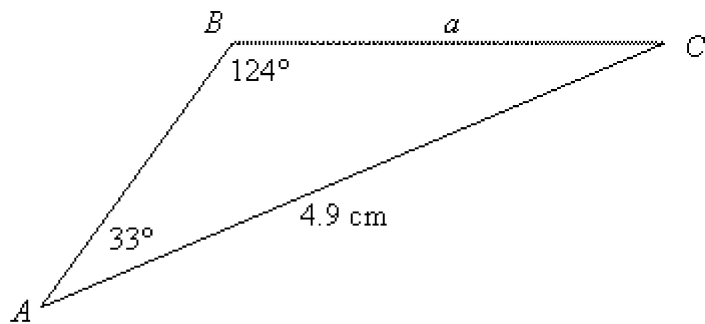




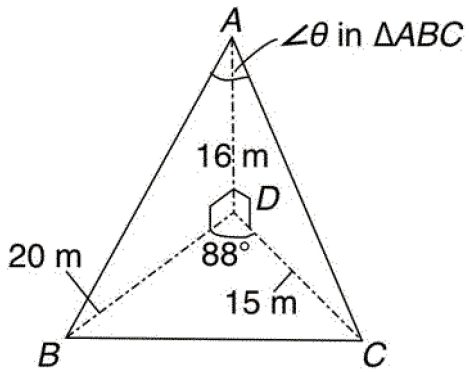


8. Prove the identity  $\frac{\sin(\theta) \times \tan(\theta)}{\sec(\theta)} = 1 - \cos^2(\theta)$

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



10. Determine angle,  $\theta$ .



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  $13.6\text{ m}$ . The left side is  $8.0\text{ m}$  long and makes an angle of  $70^\circ$  with the base of the roof. Determine the length of the right side of the roof. Be sure to first make a sketch.