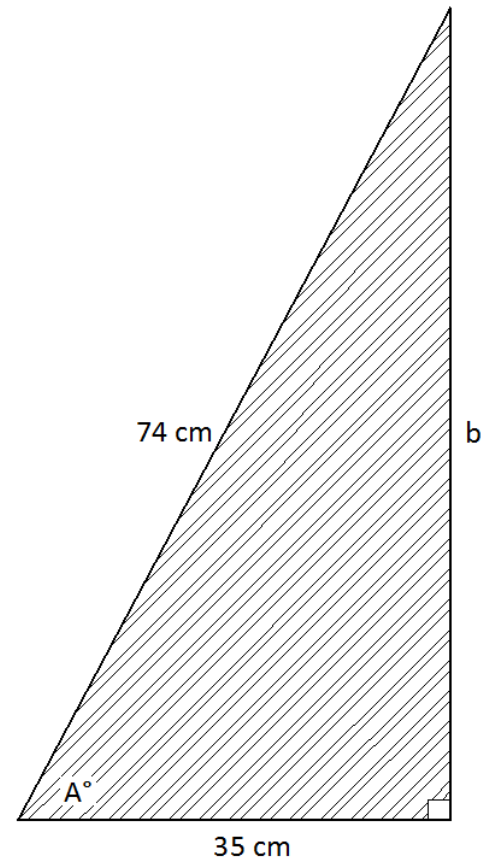
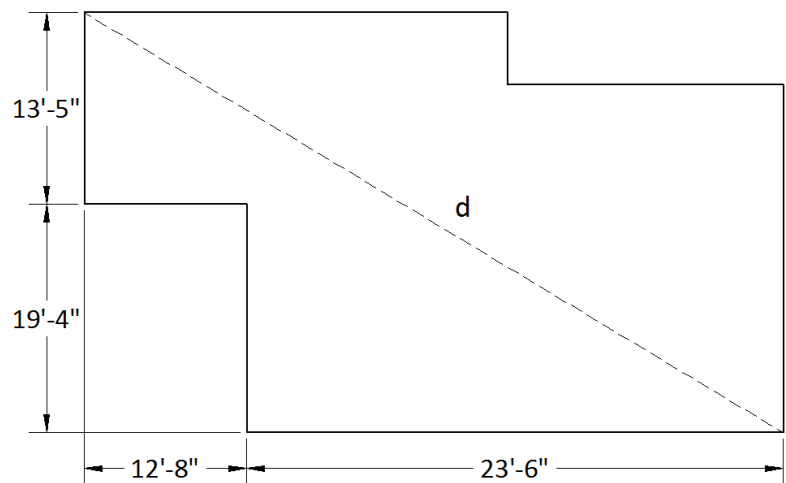


Math 63 Chapter 3 Review

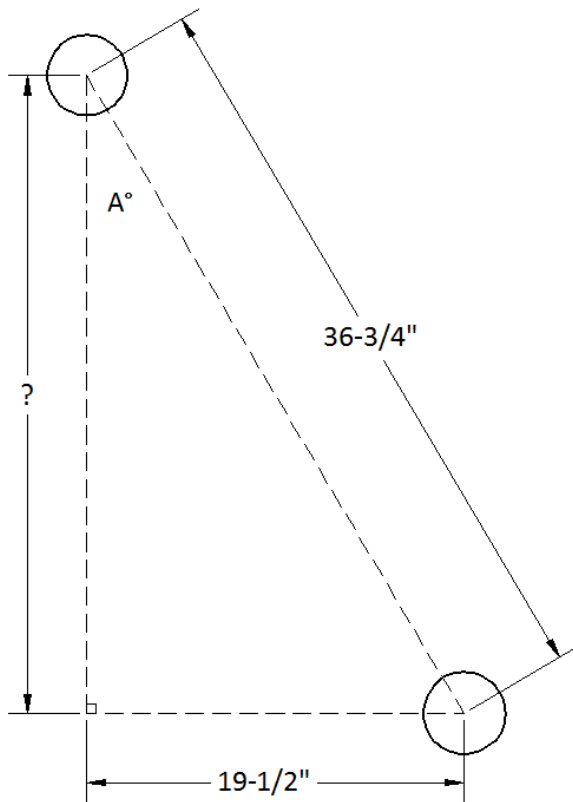
- Calculators are allowed but show your steps and box your final answer.
 - Include the correct unit with your answer.
1. Use the Pythagorean Theorem to calculate the height (b) of the steel plate. Use trigonometry to calculate the angle A . Round both measures to one decimal place.



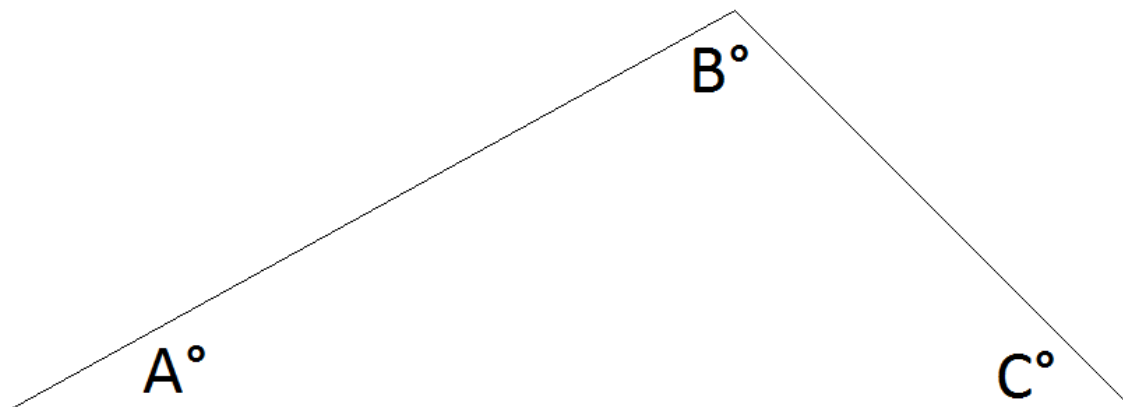
2. Calculate the diagonal distance d for the rectangular house rounded to the nearest 16^{th} of an inch.



3. Two holes are to be drilled $36\frac{3}{4}$ inches apart. If they are spaced $19\frac{1}{2}$ inches apart horizontally, use the Pythagorean Theorem to find the distance between them vertically rounded to the nearest 16^{th} of an inch. Use trigonometry to find angle A rounded to one decimal place.



4. Measure angles A, B & C in the triangle rounded to the nearest degree.

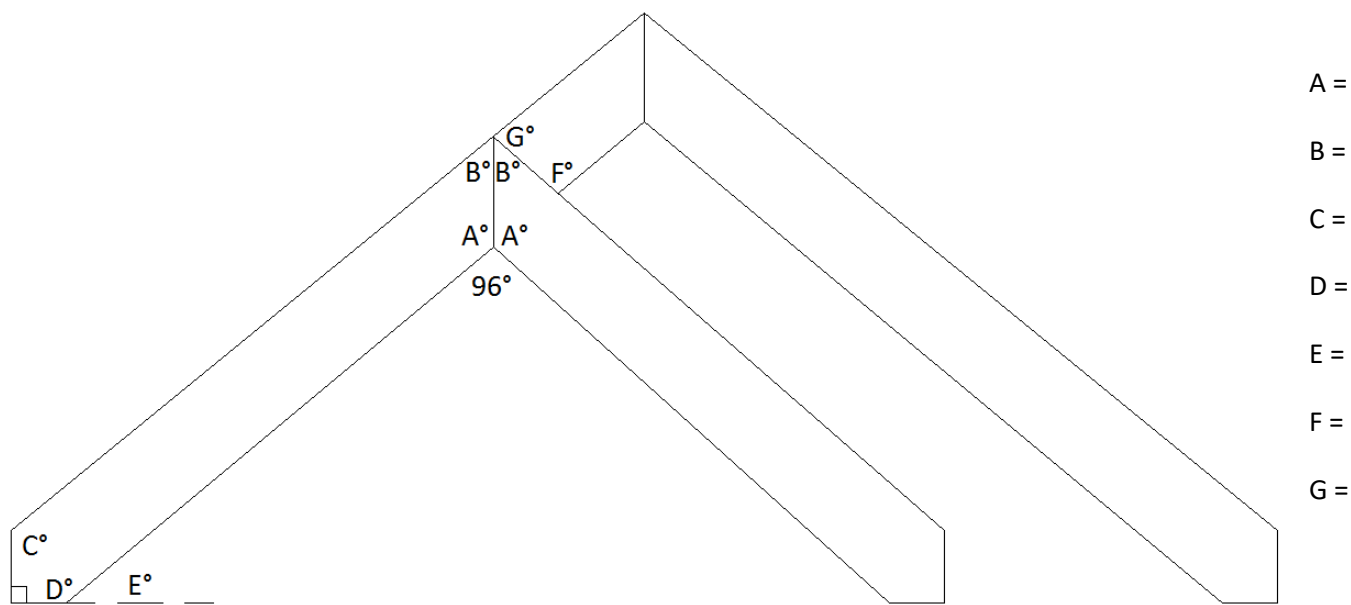


A =

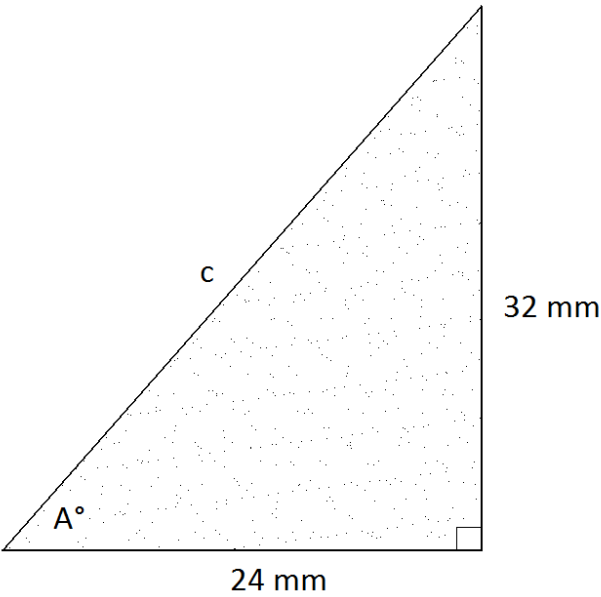
B =

C =

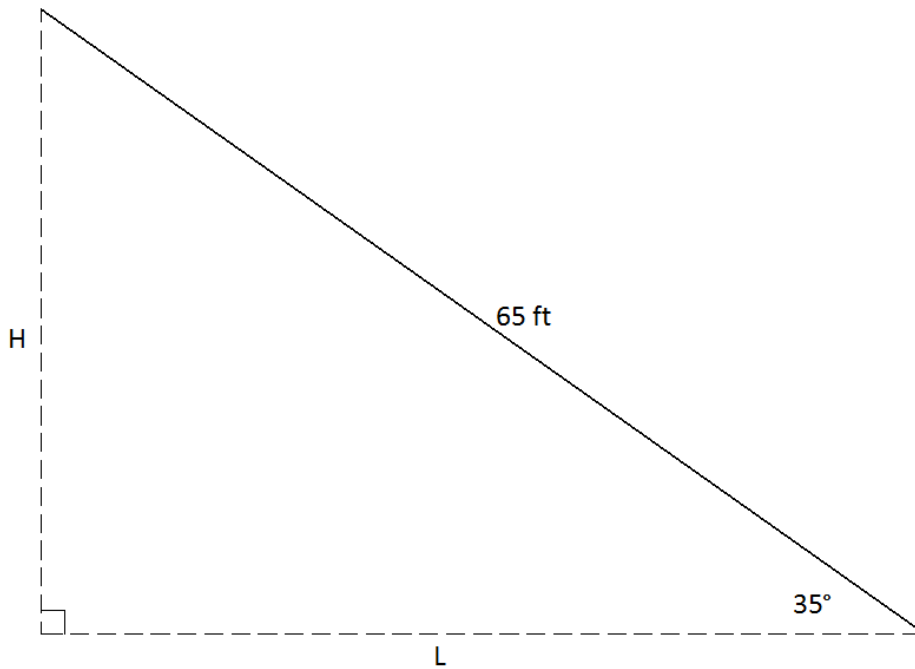
5. Calculate the angles in roof (lines that appear parallel are parallel).



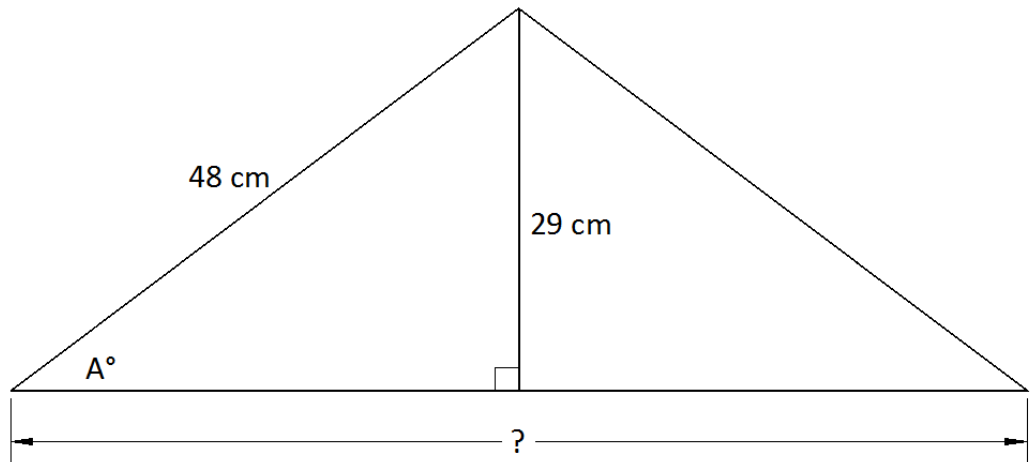
6. Use trigonometry to calculate angle A and length c in the plate steel brace rounded to one decimal place.



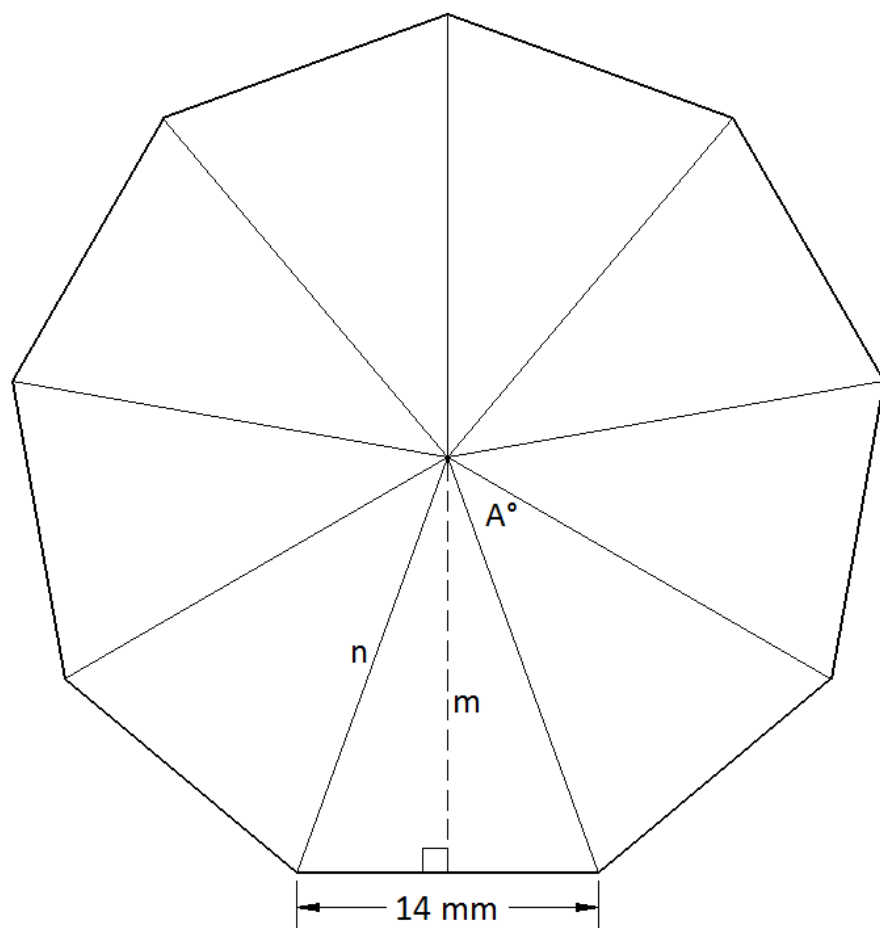
7. A 65 foot crane is raised to an angle of 35° . Find the length (L) and height (H) for the reach of the crane, rounded to one decimal place. You don't need to convert to inches.



8. Calculate angle A and the width in the welded truss roof rounded to one decimal place.



9. In a regular nonagon the 9 angles at the center are all equal. Calculate angle A then use trigonometry to find lengths m & n rounded to one decimal place.



10. There are 10 holes equally spaced 52 millimeters from the center on the disc brake. Use trigonometry to calculate the (x,y) coordinates for holes A & B. Round your answers to one decimal place.

