

Triangle Area Homework

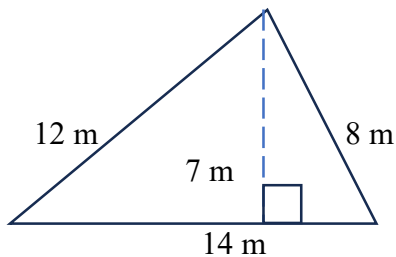
Write your answers on notebook paper, not this sheet.

$$\text{Area of triangle} = \frac{1}{2} (\text{base})(\text{height})$$

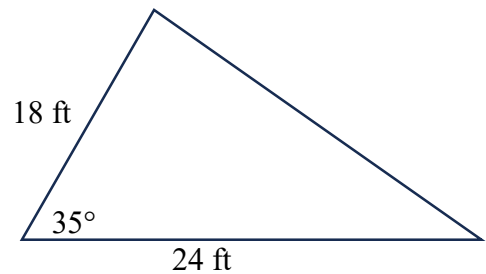
$$\text{Area of triangle} = \frac{1}{2} a b (\sin C)$$

Calculate the area. Write the formula. Plug in the given values. Show your work. Include the units in your answers. Round answers to 2 decimal places.

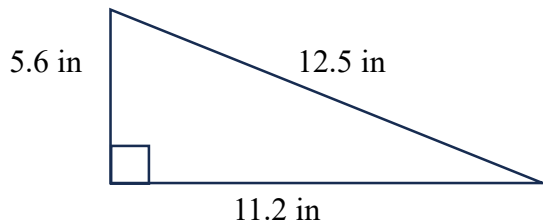
1.



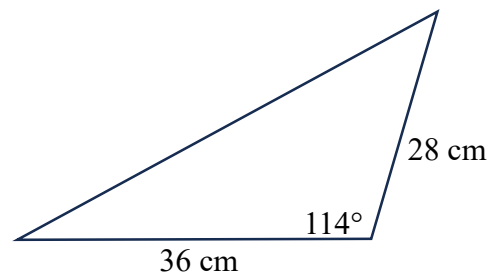
3.



2.



4.



5. A triangle has an area of 60 square feet. The base is 24 feet long. What is the height of the triangle?

6. You have a gabled roof over your porch and the gable needs to be painted. The porch is 27 feet long and the height of the gable is 6 feet.

- Calculate the area to be painted.
- A quart of exterior paint will coat 85 feet of area. How many quarts of paint will you need for the gable?

