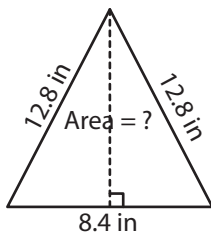


Area of an Isosceles Triangle

Example:



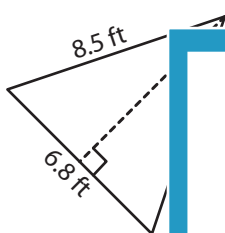
**In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{12.8^2 - 4.2^2} \\ &= \sqrt{163.84 - 17.64} \\ &= \sqrt{146.2} \text{ in} \end{aligned}$$

$$\begin{aligned} b &= 8.4 \text{ in}, h = \sqrt{146.2} \text{ in} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 8.4 \times \sqrt{146.2} \\ &= 50.78 \text{ in}^2 \end{aligned}$$

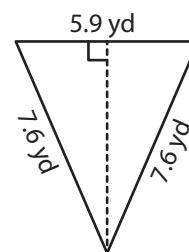
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



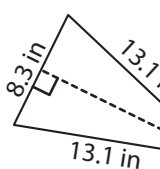
Area =

2)

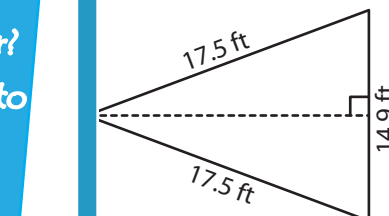


Area =

4)

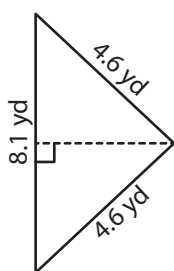


Area =

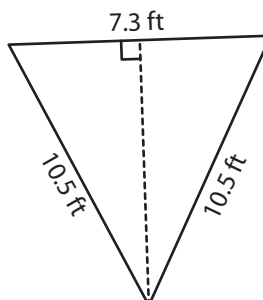


Area =

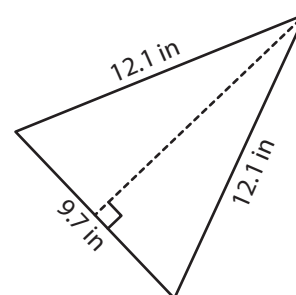
7)



Area =



Area =



Area =

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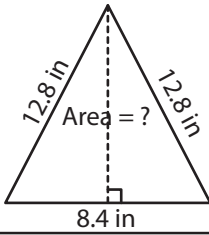
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Area of an Isosceles Triangle

Example:



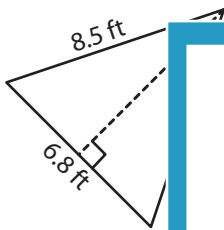
**In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{12.8^2 - 4.2^2} \\ &= \sqrt{163.84 - 17.64} \\ &= \sqrt{146.2} \text{ in} \end{aligned}$$

$$\begin{aligned} b &= 8.4 \text{ in}, h = \sqrt{146.2} \text{ in} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 8.4 \times \sqrt{146.2} \\ &= 50.78 \text{ in}^2 \end{aligned}$$

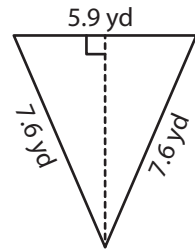
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



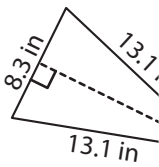
Area = **26.49 ft²**

2)

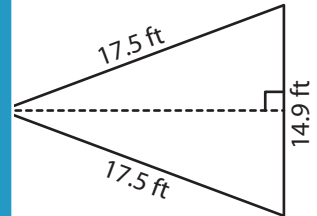


Area = **20.66 yd²**

4)

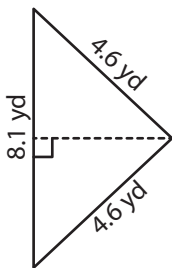


Area = **51.56 in²**

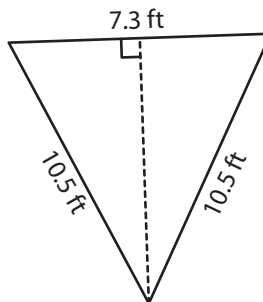


Area = **117.97 ft²**

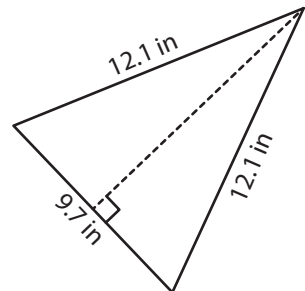
7)



Area = **8.83 yd²**



Area = **35.93 ft²**



Area = **53.76 in²**

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