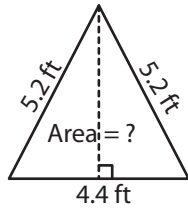


Area of an Isosceles Triangle

Example:



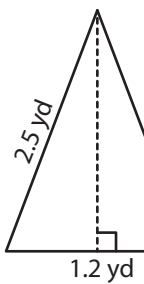
**In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{5.2^2 - 2.2^2} \\ &= \sqrt{27.04 - 4.84} \\ &= \sqrt{22.2} \text{ ft} \end{aligned}$$

$$\begin{aligned} b &= 4.4 \text{ ft}, h = \sqrt{22.2} \text{ ft} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 4.4 \times \sqrt{22.2} \\ &= \mathbf{10.37 \text{ ft}^2} \end{aligned}$$

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

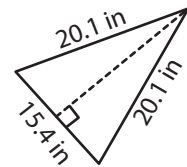
1)



Area =

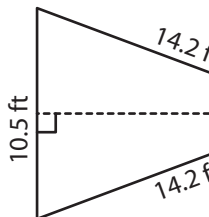
2)

8.6 ft

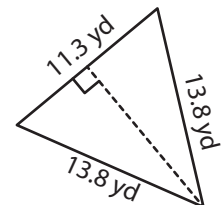


Area =

4)

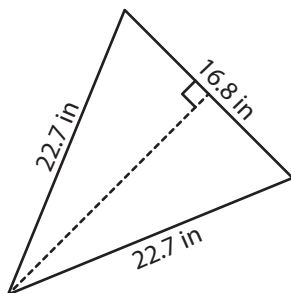


Area =

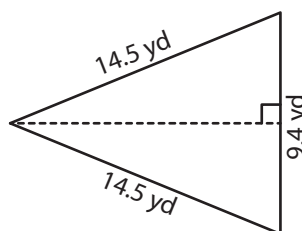


Area =

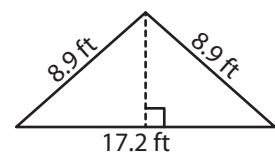
7)



Area =



Area =



Area =

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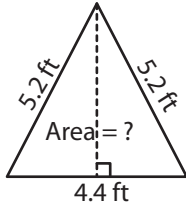
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Area of an Isosceles Triangle

Example:



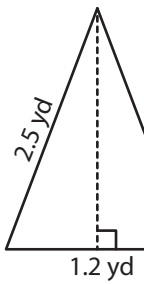
**In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.**

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$$\begin{aligned} b &= 4.4 \text{ ft}, h = \sqrt{22.2} \text{ ft} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 4.4 \times \sqrt{22.2} \\ &= \mathbf{10.37 \text{ ft}^2} \end{aligned}$$

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

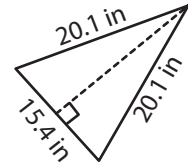
1)



Area = **1.46 yd²**

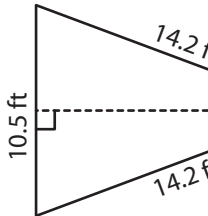
2)

8.6 ft

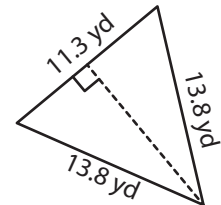


Area = **142.96 in²**

4)

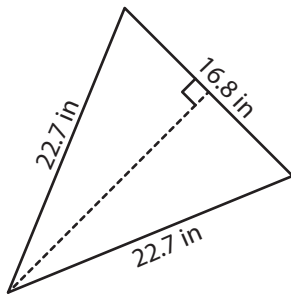


Area = **69.27 ft²**

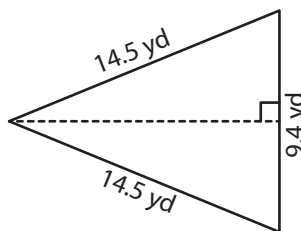


Area = **71.14 yd²**

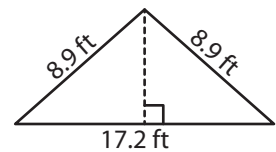
7)



Area = **177.14 in²**



Area = **64.47 yd²**



Area = **19.71 ft²**

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