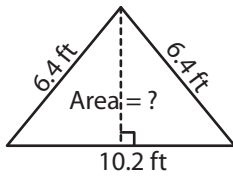


Area of an Isosceles Triangle

Example:



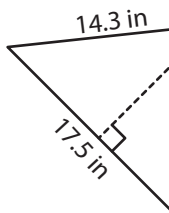
**In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{6.4^2 - 5.1^2} \\ &= \sqrt{40.96 - 26.01} \\ &= \sqrt{14.95} \text{ ft} \end{aligned}$$

$$\begin{aligned} b &= 10.2 \text{ ft}, h = \sqrt{14.95} \text{ ft} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 10.2 \times \sqrt{14.95} \\ &= \mathbf{19.72 \text{ ft}^2} \end{aligned}$$

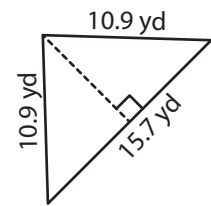
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



Area =

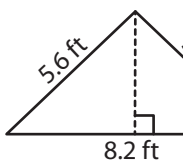
2)



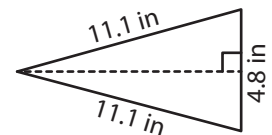
Area =

3)

4)

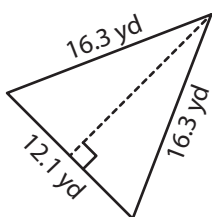


Area =

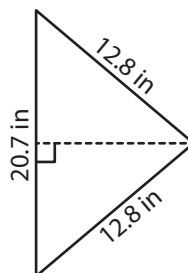


Area =

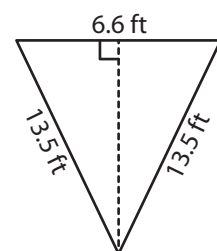
7)



Area =



Area =



Area =

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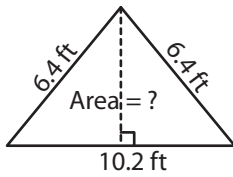
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Area of an Isosceles Triangle

Example:



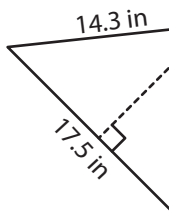
In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.

$$\begin{aligned} \text{height} &= \sqrt{6.4^2 - 5.1^2} \\ &= \sqrt{40.96 - 26.01} \\ &= \sqrt{14.95} \text{ ft} \end{aligned}$$

$$\begin{aligned} b &= 10.2 \text{ ft}, h = \sqrt{14.95} \text{ ft} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 10.2 \times \sqrt{14.95} \\ &= \mathbf{19.72 \text{ ft}^2} \end{aligned}$$

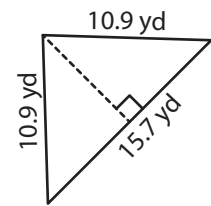
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



Area = **98.97 in²**

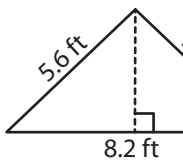
2)



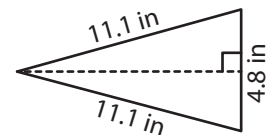
Area = **59.36 yd²**

3)

4)

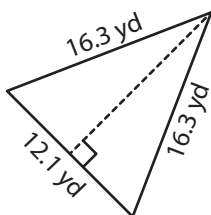


Area = **15.64 ft²**

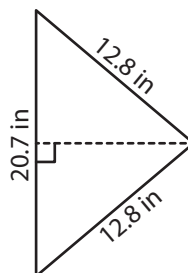


Area = **26.01 in²**

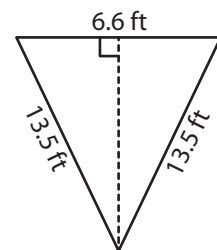
7)



Area = **91.57 yd²**



Area = **77.95 in²**



Area = **43.2 ft²**

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