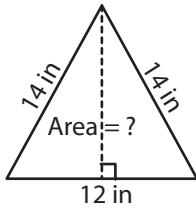


# Area of an Isosceles Triangle

Example:



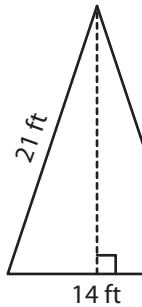
**In an isosceles triangle, altitude drawn to the base is a median.  
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{14^2 - 6^2} \\ &= \sqrt{196 - 36} \\ &= \sqrt{160} \text{ in} \end{aligned}$$

$$\begin{aligned} b &= 12 \text{ in}, h = \sqrt{160} \text{ in} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 12 \times \sqrt{160} \\ &= 75.89 \text{ in}^2 \end{aligned}$$

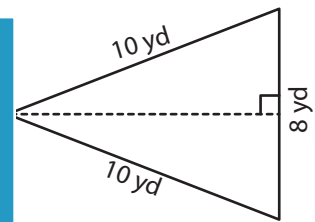
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



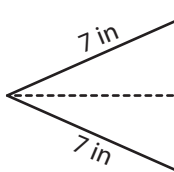
Area =

2)

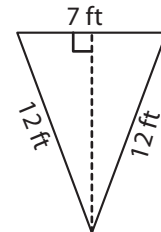


Area =

4)

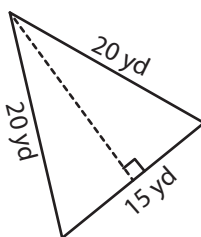


Area =

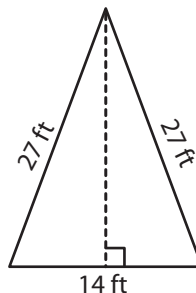


Area =

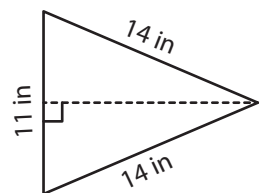
7)



Area =



Area =



Area =

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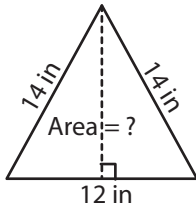
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# Area of an Isosceles Triangle

Example:



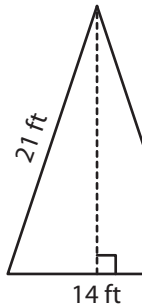
In an isosceles triangle, altitude drawn to the base is a median.  
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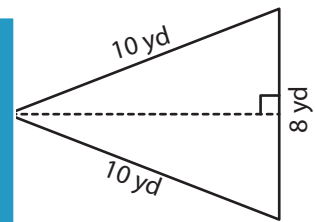
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



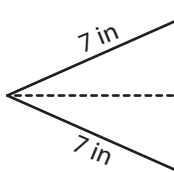
Area = **138.59**

2)



Area = **36.66 yd<sup>2</sup>**

4)



Area = **16.35 in<sup>2</sup>**

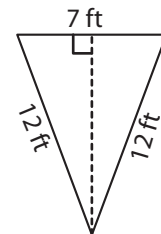
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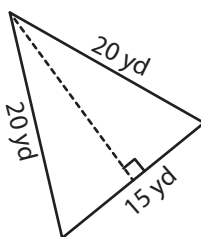
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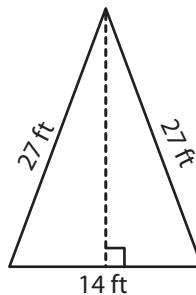


Area = **40.17 ft<sup>2</sup>**

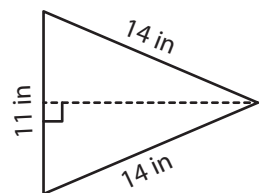
7)



Area = **139.05 yd<sup>2</sup>**



Area = **182.54 ft<sup>2</sup>**



Area = **70.81 in<sup>2</sup>**