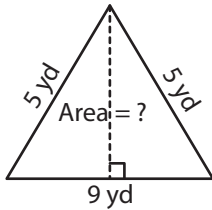


# Area of an Isosceles Triangle

Example:



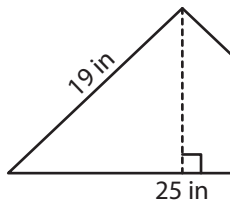
**In an isosceles triangle, altitude drawn to the base is a median.  
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{5^2 - 4.5^2} \\ &= \sqrt{25 - 20.25} \\ &= \sqrt{4.75} \text{ yd} \end{aligned}$$

$$\begin{aligned} b &= 9 \text{ yd}, h = \sqrt{4.75} \text{ yd} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 9 \times \sqrt{4.75} \\ &= 9.81 \text{ yd}^2 \end{aligned}$$

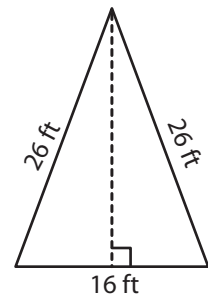
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



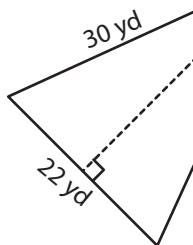
Area =

2)



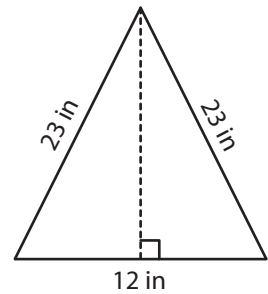
Area =

4)



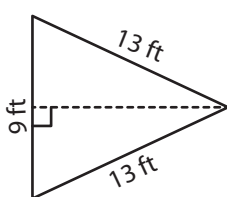
Area =

3)

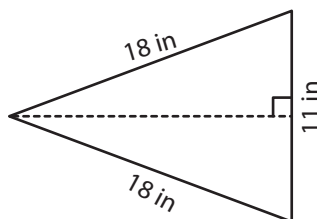


Area =

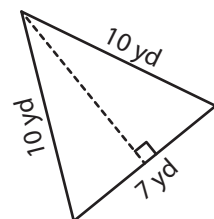
7)



Area =



Area =



Area =

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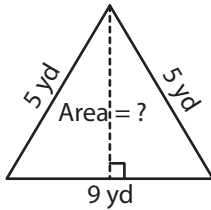
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**Area of an Isosceles Triangle**

Example:



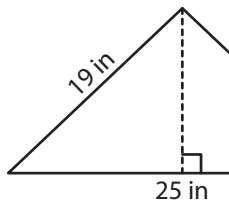
In an isosceles triangle, altitude drawn to the base is a median.  
Median divides base into equal line segments.

$$\begin{aligned} \text{height} &= \sqrt{5^2 - 4.5^2} \\ &= \sqrt{25 - 20.25} \\ &= \sqrt{4.75} \text{ yd} \end{aligned}$$

$$\begin{aligned} b &= 9 \text{ yd}, h = \sqrt{4.75} \text{ yd} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 9 \times \sqrt{4.75} \\ &= 9.81 \text{ yd}^2 \end{aligned}$$

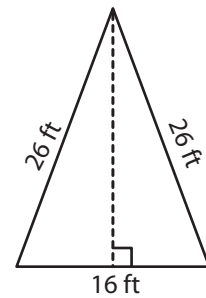
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



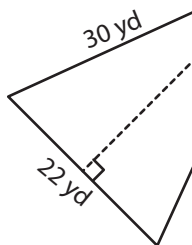
Area = **178.86**

2)



Area = **197.91 ft<sup>2</sup>**

4)



Area = **307.02 yd<sup>2</sup>**

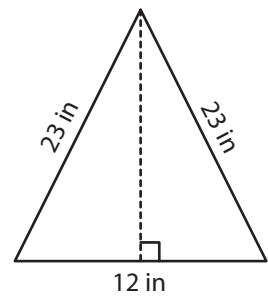
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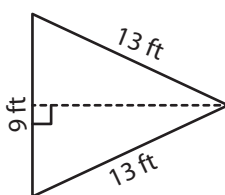
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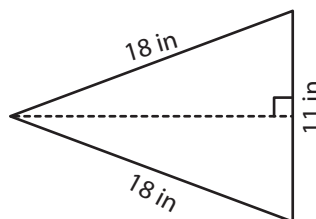


Area = **133.22 in<sup>2</sup>**

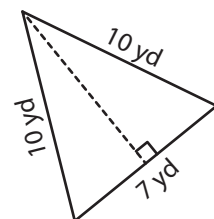
7)



Area = **54.88 ft<sup>2</sup>**



Area = **94.27 in<sup>2</sup>**



Area = **32.79 yd<sup>2</sup>**