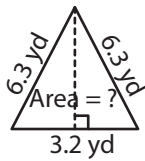


Area of an Isosceles Triangle

Example:

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

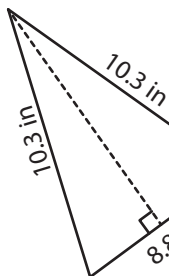


$$\begin{aligned} \text{height} &= \sqrt{6.3^2 - 1.6^2} \\ &= \sqrt{39.69 - 2.56} \\ &= \sqrt{37.13} \text{ yd} \end{aligned}$$

$$\begin{aligned} b &= 3.2 \text{ yd}, h = \sqrt{37.13} \text{ yd} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 3.2 \times \sqrt{37.13} \\ &= \mathbf{9.75 \text{ yd}^2} \end{aligned}$$

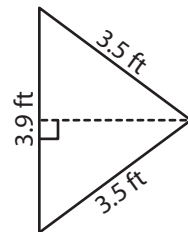
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



Area =

2)

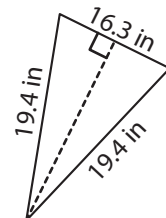


Area =

4)

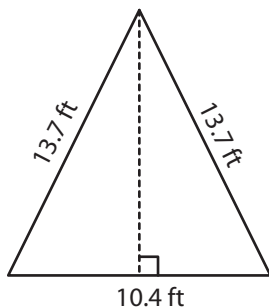


Area =

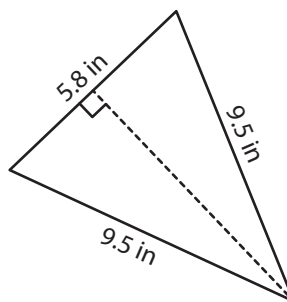


Area =

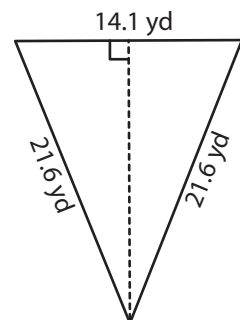
7)



Area =



Area =



Area =

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Area of an Isosceles Triangle

Example:



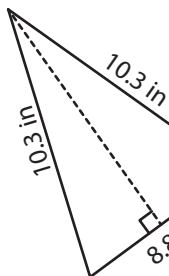
In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.

$$\begin{aligned} \text{height} &= \sqrt{6.3^2 - 1.6^2} \\ &= \sqrt{39.69 - 2.56} \\ &= \sqrt{37.13} \text{ yd} \end{aligned}$$

$$\begin{aligned} b &= 3.2 \text{ yd}, h = \sqrt{37.13} \text{ yd} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 3.2 \times \sqrt{37.13} \\ &= 9.75 \text{ yd}^2 \end{aligned}$$

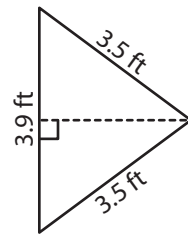
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



Area = **40.98 in²**

2)



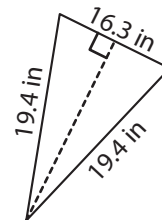
Area = **5.67 ft²**

3)

4)

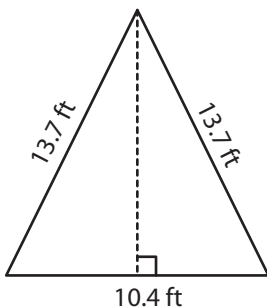


Area = **19.46 yd²**

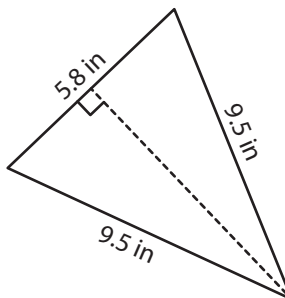


Area = **143.48 in²**

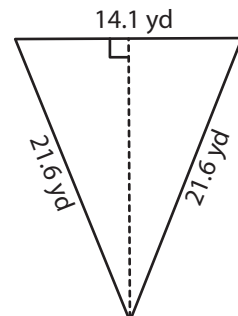
7)



Area = **65.91 ft²**



Area = **26.23 in²**



Area = **143.94 yd²**

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