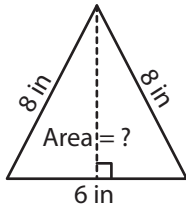


Area of an Isosceles Triangle

Example:



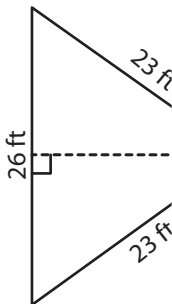
**In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.**

$$\begin{aligned} \text{height} &= \sqrt{8^2 - 3^2} \\ &= \sqrt{64 - 9} \\ &= \sqrt{55} \text{ in} \end{aligned}$$

$$\begin{aligned} b &= 6 \text{ in}, h = \sqrt{55} \text{ in} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 6 \times \sqrt{55} \\ &= 22.25 \text{ in}^2 \end{aligned}$$

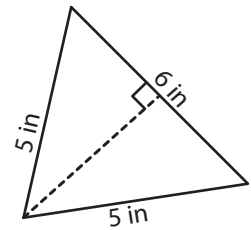
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



Area =

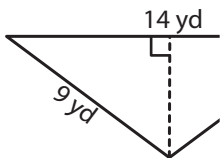
2)



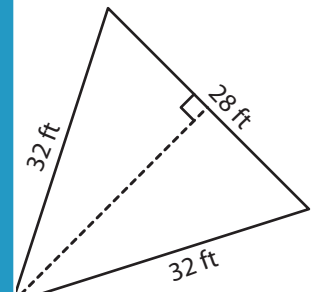
Area =

3)

4)

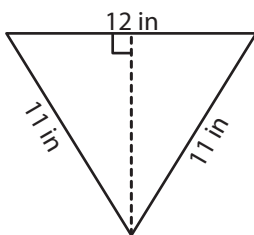


Area =

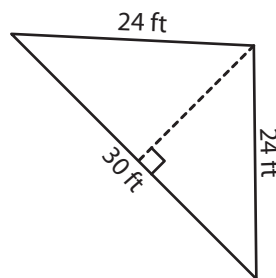


Area =

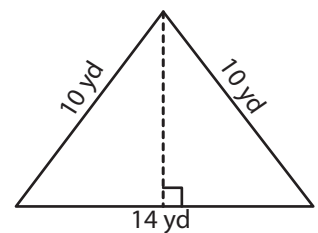
7)



Area =



Area =



Area =

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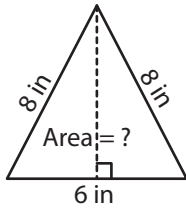
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Area of an Isosceles Triangle

Example:



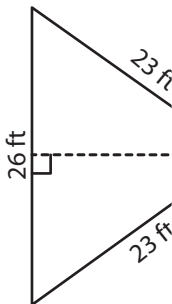
In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.

$$\begin{aligned} \text{height} &= \sqrt{8^2 - 3^2} \\ &= \sqrt{64 - 9} \\ &= \sqrt{55} \text{ in} \end{aligned}$$

$$\begin{aligned} b &= 6 \text{ in}, h = \sqrt{55} \text{ in} \\ \text{Area} &= \frac{1}{2} \times b \times h \\ &= \frac{1}{2} \times 6 \times \sqrt{55} \\ &= 22.25 \text{ in}^2 \end{aligned}$$

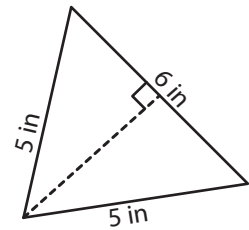
Find the area of each isosceles triangle. Round your answer to two decimal places.

1)



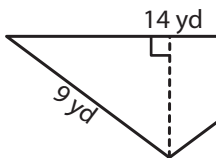
Area = **246.66**

2)



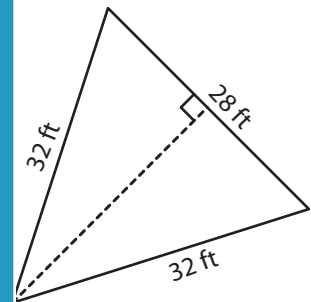
Area = **12 in²**

4)



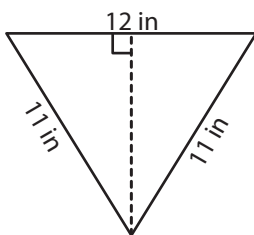
Area = **39.6 yd²**

3)

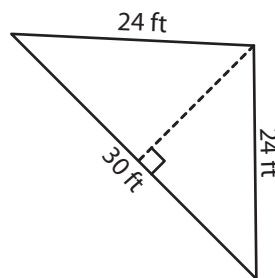


Area = **402.85 ft²**

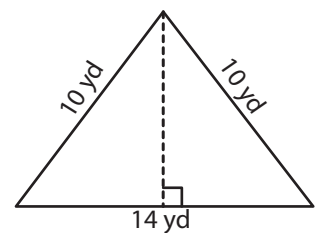
7)



Area = **55.32 in²**



Area = **281.02 ft²**



Area = **49.99 yd²**

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