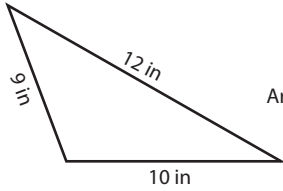


Scalene Triangle - Finding Area

Example:



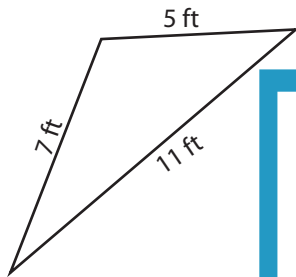
Area = ?

$$\begin{aligned} \text{Area of scalene triangle} &= \sqrt{s(s-a)(s-b)(s-c)} \\ s &= \text{half of the perimeter} \\ s &= \frac{a+b+c}{2} \\ s &= \frac{10 \text{ in} + 12 \text{ in} + 6 \text{ in}}{2} \\ s &= \frac{31 \text{ in}}{2} \\ s &= 15.5 \text{ in} \end{aligned}$$

$$\begin{aligned} \text{Area of scalene triangle} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{15.5(15.5-10)(15.5-12)(15.5-6)} \\ &= \sqrt{15.5(5.5)(3.5)(9.5)} \\ &= \sqrt{1939.4375} \\ &= 44.04 \text{ in}^2 \end{aligned}$$

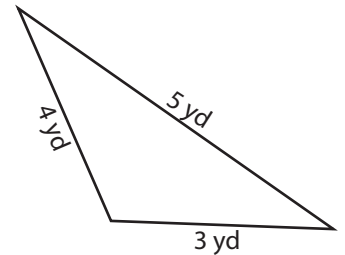
Find the area of each scalene triangle. Round the answer to two decimal places.

1)



Area = _____

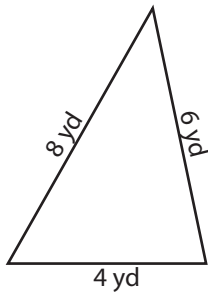
2)



Area = _____

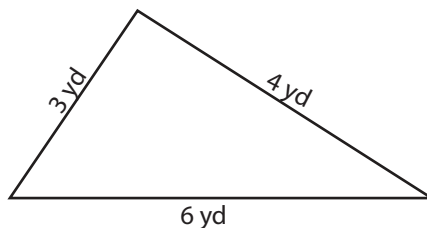
3)

4)



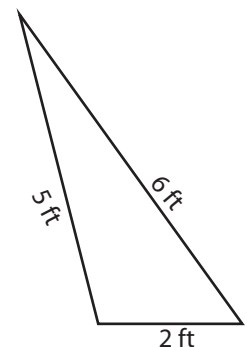
Area = _____

8)



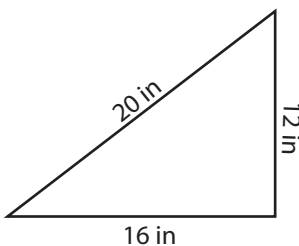
Area = _____

9)



Area = _____

7)



Area = _____

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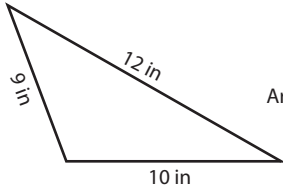
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Scalene Triangle - Finding Area

Example:



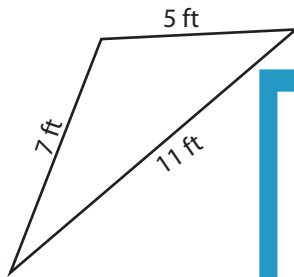
Area = ?

$$\begin{aligned} \text{Area of scalene triangle} &= \sqrt{s(s-a)(s-b)(s-c)} \\ s &= \text{half of the perimeter} \\ s &= \frac{a+b+c}{2} \\ s &= \frac{10 \text{ in} + 12 \text{ in} + 6 \text{ in}}{2} \\ s &= \frac{31 \text{ in}}{2} \\ s &= 15.5 \text{ in} \end{aligned}$$

$$\begin{aligned} \text{Area of scalene triangle} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{15.5(15.5-10)(15.5-12)(15.5-6)} \\ &= \sqrt{15.5(5.5)(3.5)(9.5)} \\ &= \sqrt{1939.4375} \\ &= 44.04 \text{ in}^2 \end{aligned}$$

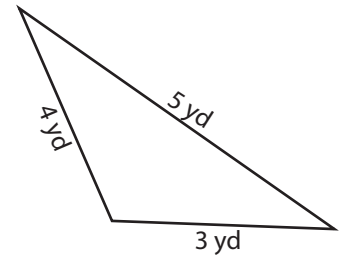
Find the area of each scalene triangle. Round the answer to two decimal places.

1)



Area = 12.97 ft²

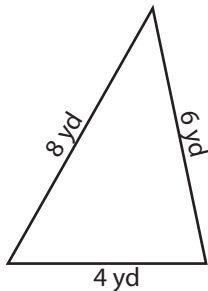
2)



Area = 6 yd²

3)

4)



Area = 11.62 yd²

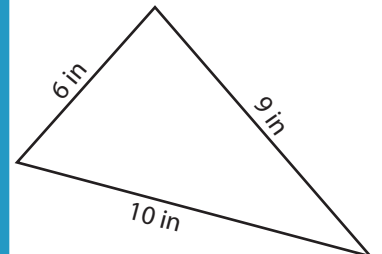
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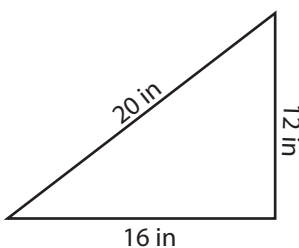
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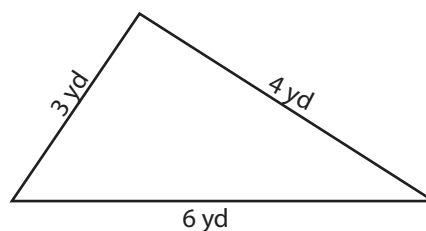
Area = 26.66 in²

7)



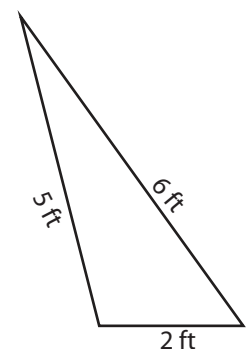
Area = 96 in²

8)



Area = 5.33 yd²

9)



Area = 4.68 ft²