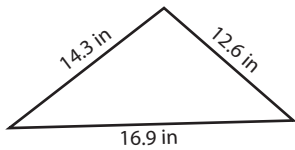


Name : _____

Area of a Scalene Triangle

T1S3

Example:



Area = ?

$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

s = half of the perimeter

$$s = \frac{a + b + c}{2}$$

$$s = \frac{14.3 \text{ in} + 12.6 \text{ in} + 16.9 \text{ in}}{2}$$

$$s = \frac{43.8 \text{ in}}{2}$$

$$s = 21.9 \text{ in}$$

$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{21.9(21.9 - 14.3)(21.9 - 12.6)(21.9 - 16.9)}$$

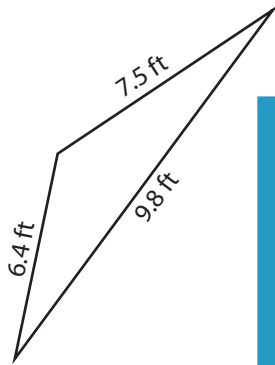
$$= \sqrt{21.9(7.6)(9.3)(5)}$$

$$= \sqrt{7,739.46}$$

$$= 87.97 \text{ in}^2$$

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

1)

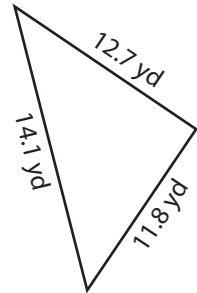


Area = _____

2)

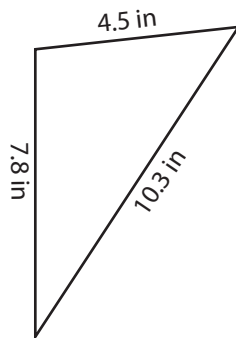


3)



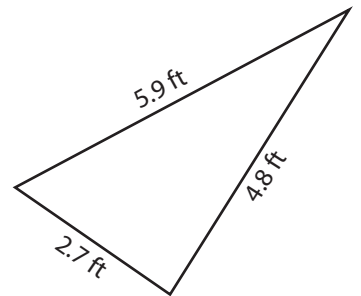
Area = _____

4)



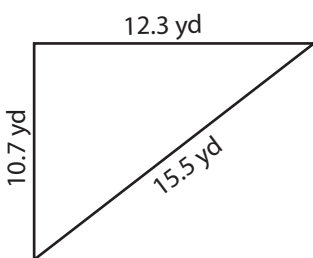
Area = _____

5)



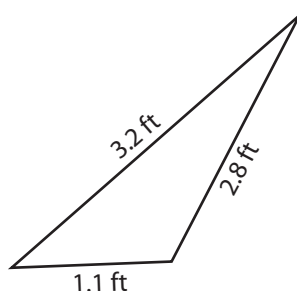
Area = _____

6)



Area = _____

7)



Area = _____

8)



Area = _____

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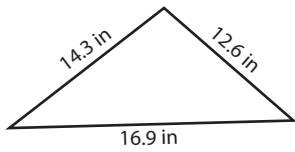
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Area of a Scalene Triangle

Example:



Area = ?

$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

s = half of the perimeter

$$s = \frac{a+b+c}{2}$$

$$s = \frac{14.3 \text{ in} + 12.6 \text{ in} + 16.9 \text{ in}}{2}$$

$$s = \frac{43.8 \text{ in}}{2}$$

$$s = 21.9 \text{ in}$$

$$\text{Area of scalene triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{21.9(21.9-14.3)(21.9-12.6)(21.9-16.9)}$$

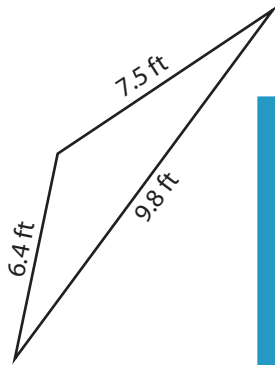
$$= \sqrt{21.9(7.6)(9.3)(5)}$$

$$= \sqrt{7,739.46}$$

$$= 87.97 \text{ in}^2$$

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

1)

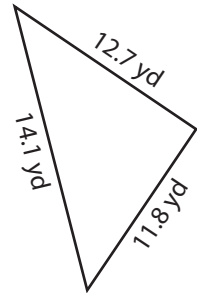


Area = 24 ft²

2)

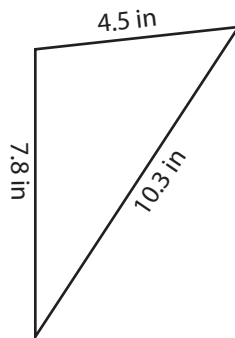


3)



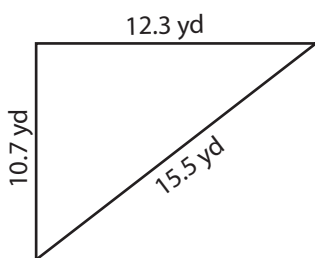
Area = 70.48 yd²

4)



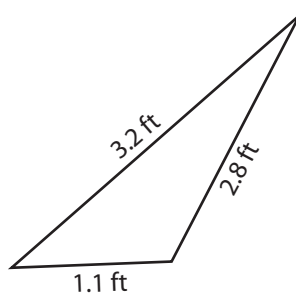
Area = 16.4 in²

7)



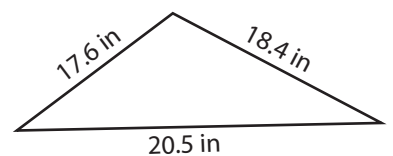
Area = 65.49 yd²

8)



Area = 1.51 ft²

9)



Area = 151.55 in²

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