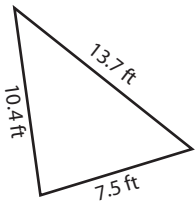


Name : \_\_\_\_\_

## Area of a Scalene Triangle

T1S4

Example:



Area = ?

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

$s$  = half of the perimeter

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

$$s = \frac{10.4 \text{ ft} + 13.7 \text{ ft} + 7.5 \text{ ft}}{2}$$

$$s = \frac{31.6 \text{ ft}}{2}$$

$$s = 15.8 \text{ ft}$$

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

$$= \sqrt{15.8(15.8-10.4)(15.8-13.7)(15.8-7.5)}$$

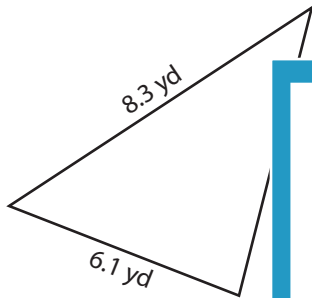
$$= \sqrt{15.8(5.4)(2.1)(8.3)}$$

$$= \sqrt{1,487.1276}$$

$$= 38.56 \text{ ft}^2$$

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

1)

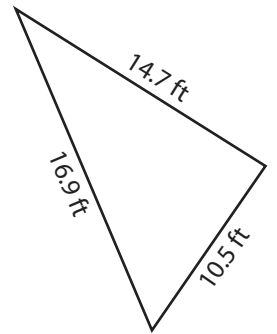


Area = \_\_\_\_\_

2)

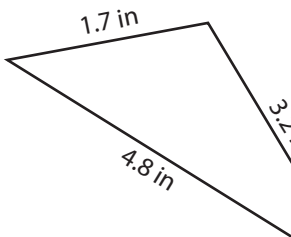


3)



Area = \_\_\_\_\_

4)



Area = \_\_\_\_\_

# PREVIEW

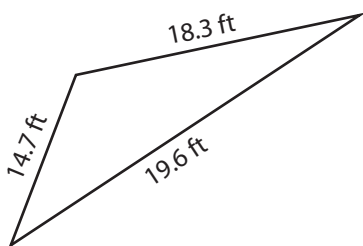
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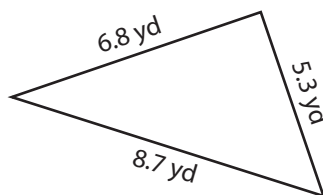
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7)



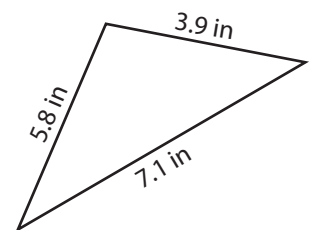
Area = \_\_\_\_\_

8)



Area = \_\_\_\_\_

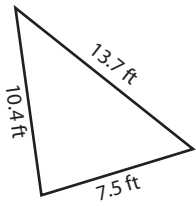
9)



Area = \_\_\_\_\_

## 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

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

$$s = \frac{10.4 \text{ ft} + 13.7 \text{ ft} + 7.5 \text{ ft}}{2}$$

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$$s = 15.8 \text{ ft}$$

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

$$= \sqrt{15.8(15.8-10.4)(15.8-13.7)(15.8-7.5)}$$

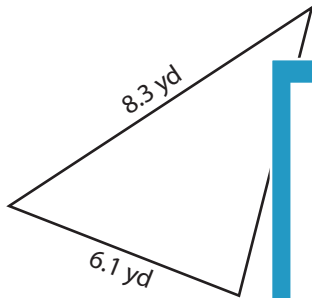
$$= \sqrt{15.8(5.4)(2.1)(8.3)}$$

$$= \sqrt{1,487.1276}$$

$$= 38.56 \text{ ft}^2$$

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

1)

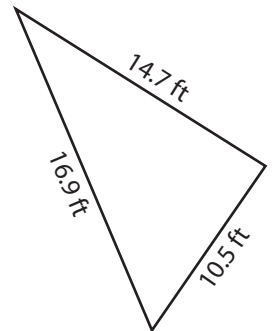


Area = 22.03 yd<sup>2</sup>

2)

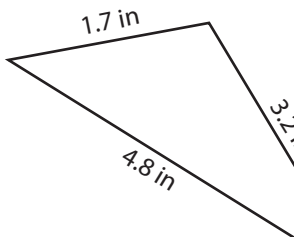


3)



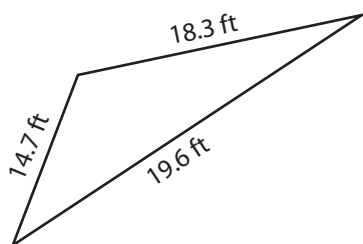
Area = 76.5 ft<sup>2</sup>

4)



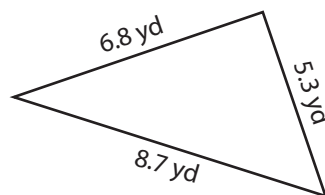
Area = 1.12 in<sup>2</sup>

7)



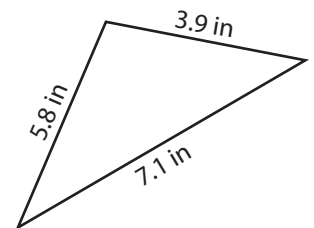
Area = 127.88 ft<sup>2</sup>

8)



Area = 18.02 yd<sup>2</sup>

9)



Area = 11.3 in<sup>2</sup>

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