Name : _____

Area of an Isosceles Triangle

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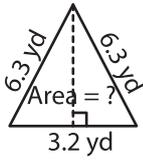
In an isosceles triangle, altitude drawn to the base is a median.
Median divides base into equal line segments.

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

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

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

1)

10.3 in, 10.3 in, 8.?

Area = [ ]

2)

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3)

3.5 ft, 3.9 ft, 3.5 ft

Area = [ ]

4)

7.4 yd, 5.7 yd
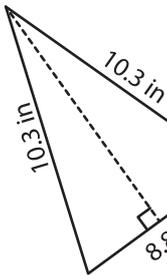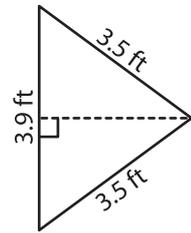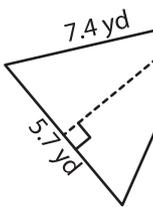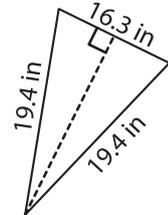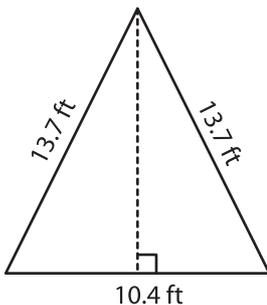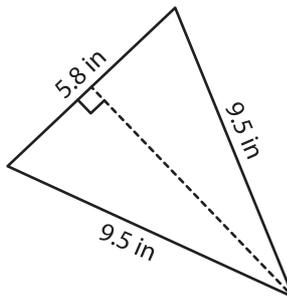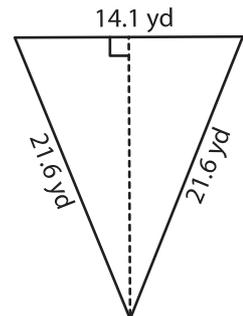
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Area = [ ]

6)

16.3 in, 19.4 in, 19.4 in

Area = [ ]

7)

13.7 ft, 13.7 ft, 10.4 ft

Area = [ ]

8)

5.8 in, 9.5 in, 9.5 in

Area = [ ]

9)

14.1 yd, 21.6 yd, 21.6 yd

Area = [ ]