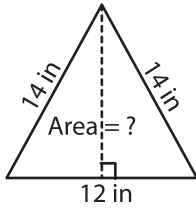Name : _____

# Area of an Isosceles Triangle
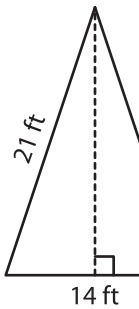
**Example:**

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

$$\text{height} = \sqrt{14^2 - 6^2}$$
$$= \sqrt{196 - 36}$$
$$= \sqrt{\mathbf{160}} \text{ in}$$

$$b = 12 \text{ in}, \ h = \sqrt{160} \text{ in}$$
$$\text{Area} = \frac{1}{2} \times b \times h$$
$$= \frac{1}{2} \times 12 \times \sqrt{160}$$
$$= \mathbf{75.89 \text{ in}^2}$$
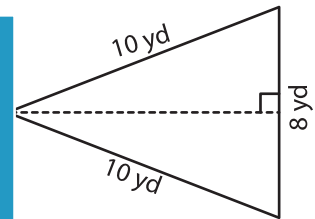
14 in  14 in  Area = ?  12 in

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

1)

21 ft

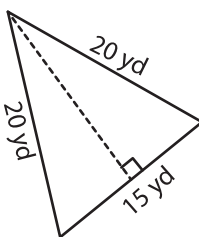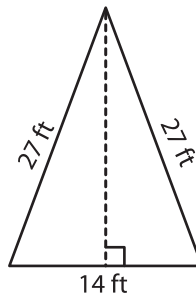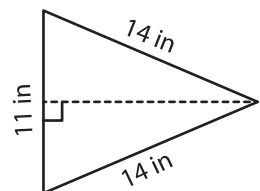14 ft

Area =

2)

3)

10 yd

10 yd

8 yd
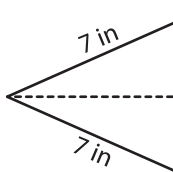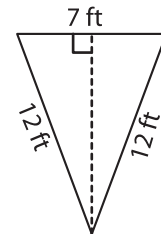
rea =

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4)

7 in

7 in

Area =

7 ft

12 ft   12 ft

rea =

7)

20 yd

20 yd

15 yd

Area =

27 ft   27 ft

14 ft

Area =

14 in

11 in

14 in

Area =