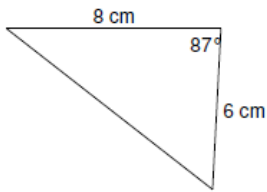


## Area ... Set 1

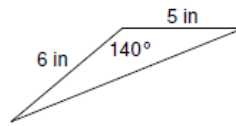
### Trigonometry and Area

Find the area of each figure. Round your answer to the nearest tenth.

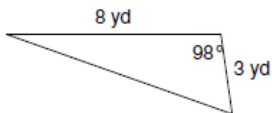
1)



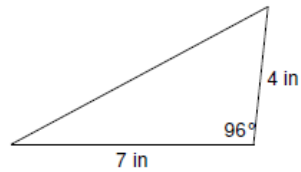
2)



3)



4)



5) A triangle with two sides that measure 6 yd and 2 yd with an included angle of  $10^\circ$ .

6) A triangle with two sides that measure 6 m and 8 m with an included angle of  $137^\circ$ .

7) A triangle with two sides that measure 5 cm and 8 cm with an included angle of  $39^\circ$ .

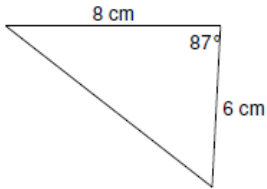
8) A triangle with two sides that measure 8 ft and 7 ft with an included angle of  $30^\circ$ .

## Area ... Set 1

### Answers

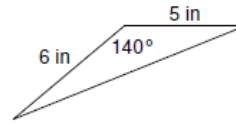
Find the area of each figure. Round your answer to the nearest tenth.

1)



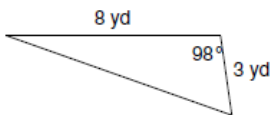
$24 \text{ cm}^2$

2)



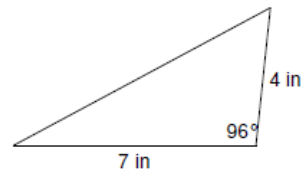
$9.6 \text{ in}^2$

3)



$11.9 \text{ yd}^2$

4)



$13.9 \text{ in}^2$

5) A triangle with two sides that measure 6 yd and 2 yd with an included angle of  $10^\circ$ .

$1 \text{ yd}^2$

6) A triangle with two sides that measure 6 m and 8 m with an included angle of  $137^\circ$ .

$16.4 \text{ m}^2$

7) A triangle with two sides that measure 5 cm and 8 cm with an included angle of  $39^\circ$ .

$12.6 \text{ cm}^2$

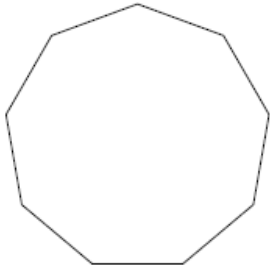
8) A triangle with two sides that measure 8 ft and 7 ft with an included angle of  $30^\circ$ .

$14 \text{ ft}^2$

## Area ... Set 1

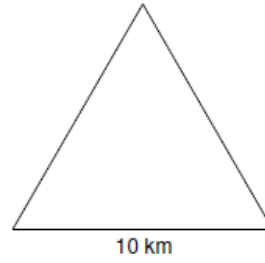
Find the area of each regular polygon. Round your answer to the nearest tenth.

9)

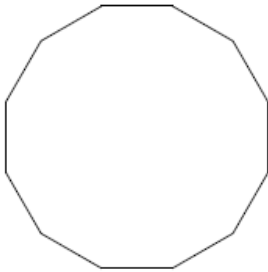


Perimeter = 108 mi

10)

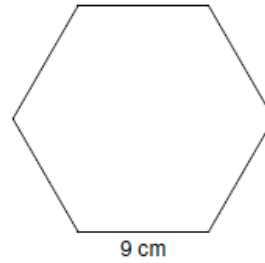


11)



Perimeter = 144 cm

12)



13) A regular hexagon with a perimeter of 48 yd.

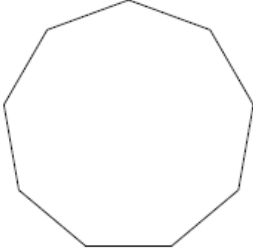
14) A regular pentagon 6 ft on each side.

## Area ... Set 1

### Answers

Find the area of each regular polygon. Round your answer to the nearest tenth.

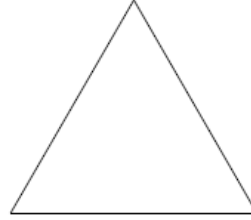
9)



Perimeter = 108 mi

**890.2 mi<sup>2</sup>**

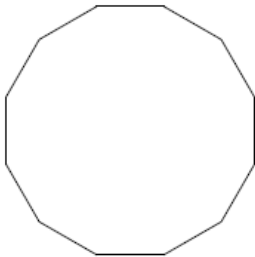
10)



10 km

**43.3 km<sup>2</sup>**

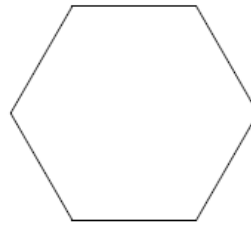
11)



Perimeter = 144 cm

**1612.2 cm<sup>2</sup>**

12)



9 cm

**210.4 cm<sup>2</sup>**

13) A regular hexagon with a perimeter of 48 yd.

**166.3 yd<sup>2</sup>**

14) A regular pentagon 6 ft on each side.

**61.9 ft<sup>2</sup>**