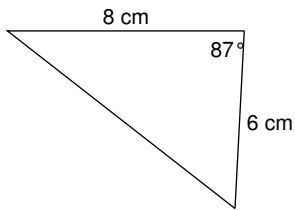


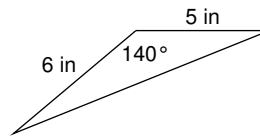
## Trigonometry and Area

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

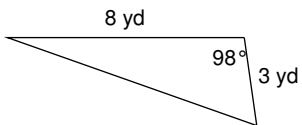
1)



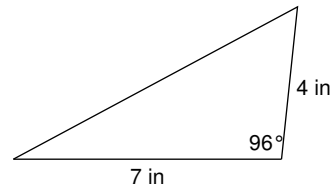
2)



3)



4)



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

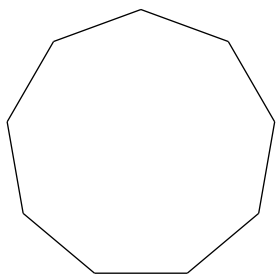
6) A triangle with two sides that measure 6 m and 8 m with an included angle of  $137^\circ$ .

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  $30^\circ$ .

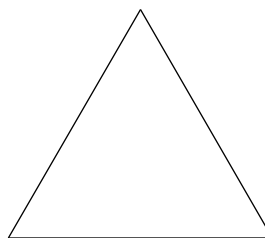
**Find the area of each regular polygon. Round your answer to the nearest tenth.**

9)



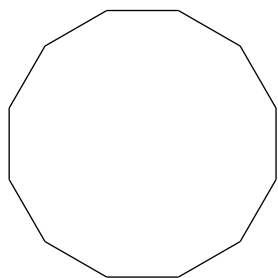
Perimeter = 108 mi

10)



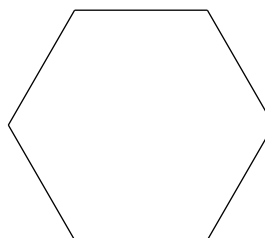
10 km

11)



Perimeter = 144 cm

12)



9 cm

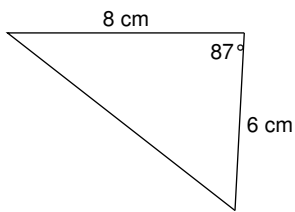
13) A regular hexagon with a perimeter of 48 yd.

14) A regular pentagon 6 ft on each side.

## Trigonometry and Area

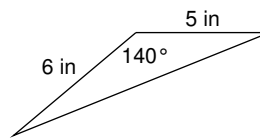
Find the area of each figure. Round your answer to the nearest tenth.

1)



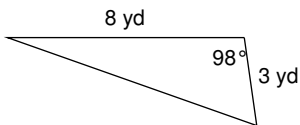
24 cm<sup>2</sup>

2)



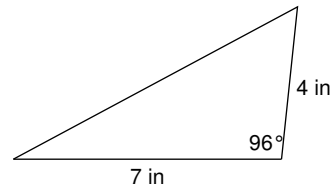
9.6 in<sup>2</sup>

3)



11.9 yd<sup>2</sup>

4)



13.9 in<sup>2</sup>

5) A triangle with two sides that measure 6 yd and 2 yd with an included angle of 10°.

1 yd<sup>2</sup>

6) A triangle with two sides that measure 6 m and 8 m with an included angle of 137°.

16.4 m<sup>2</sup>

7) A triangle with two sides that measure 5 cm and 8 cm with an included angle of 39°.

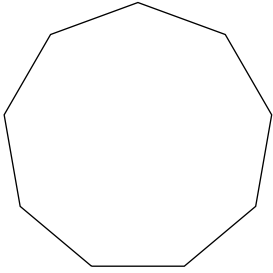
12.6 cm<sup>2</sup>

8) A triangle with two sides that measure 8 ft and 7 ft with an included angle of 30°.

14 ft<sup>2</sup>

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

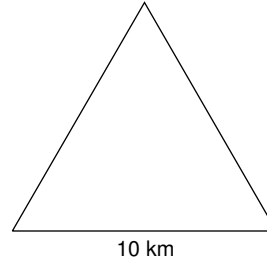
9)



Perimeter = 108 mi

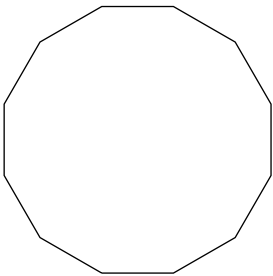
890.2 mi<sup>2</sup>

10)



43.3 km<sup>2</sup>

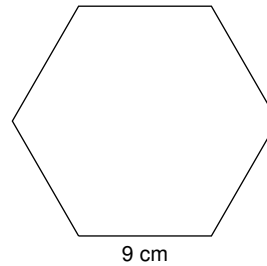
11)



Perimeter = 144 cm

1612.2 cm<sup>2</sup>

12)



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>