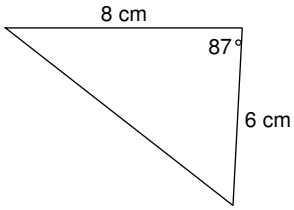
 Name_____

Trigonometry and Area

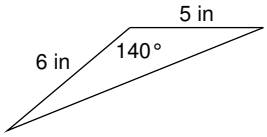
Date_____ Period____

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

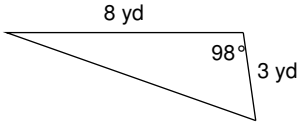
1)



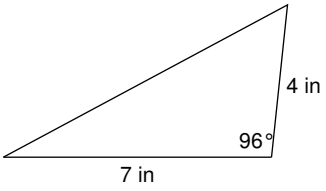
2)



3)



4)



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

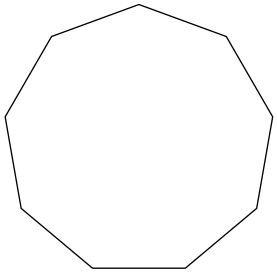
6) A triangle with two sides that measure 6 m and 8 m with an included angle of 137°.

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

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

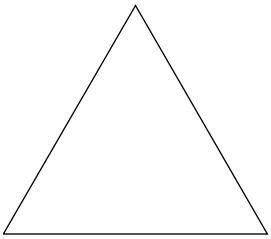
Find the area of each regular polygon. Round your answer to the nearest tenth.

9)

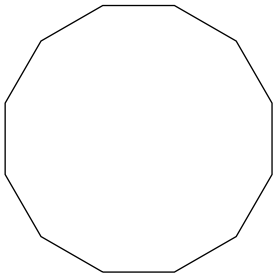


Perimeter = 108 mi

10)

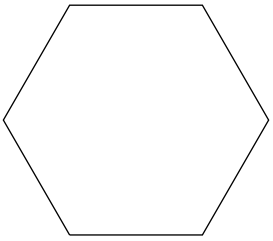


11)



Perimeter = 144 cm

12)



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

14) A regular pentagon 6 ft on each side.

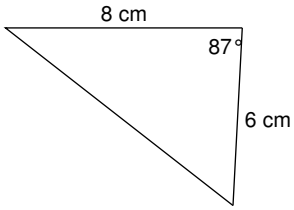
 Name_____

Trigonometry and Area

Date_____ Period____

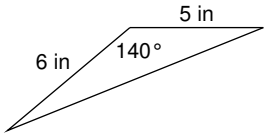
Find the area of each figure. Round your answer to the nearest tenth.

1)



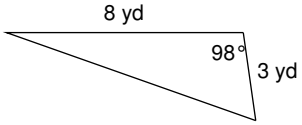
24 cm²

2)



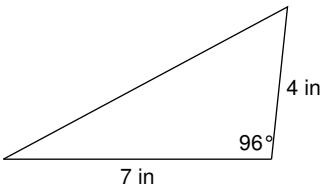
9.6 in²

3)



11.9 yd²

4)



13.9 in²

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

1 yd²

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

16.4 m²

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

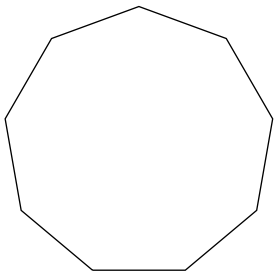
12.6 cm²

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

14 ft²

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

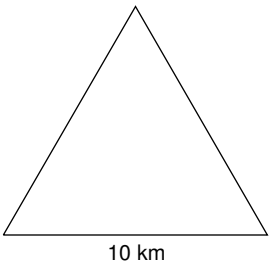
9)



Perimeter = 108 mi

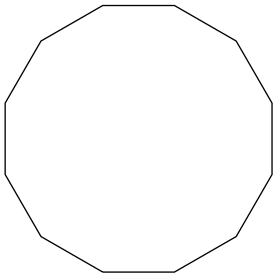
890.2 mi²

10)



43.3 km²

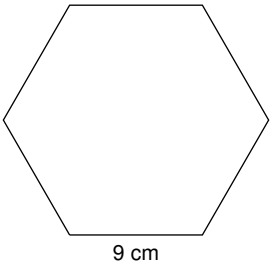
11)



Perimeter = 144 cm

1612.2 cm²

12)



210.4 cm²

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

166.3 yd²

14) A regular pentagon 6 ft on each side.

61.9 ft²