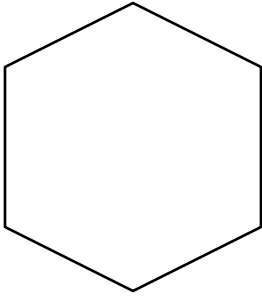
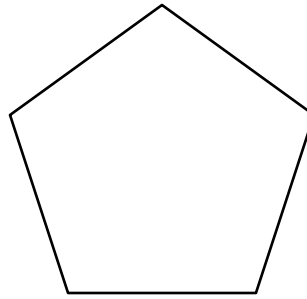


1. Find each indicated measure regarding the regular hexagon with apothem 12 in. Leave your answers in simplified radical form.



Radius = _____ Perimeter = _____
Side Length = _____ Area = _____

2. Find each indicated measure regarding the regular pentagon with side length 12 ft. Round to the nearest hundredth.



Apothem = _____ Perimeter = _____
Radius = _____ Area = _____

3. A diagram of your trapezoidal bedroom is shown below. Answer each question.

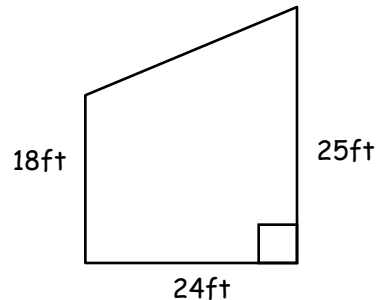
a) Find the perimeter. _____

b) Find the area. _____

c) If carpet costs \$5.25 per square foot, how much will it cost to carpet this room? _____

d) If the height of each wall is 10 feet, find the area of the four walls combined. _____

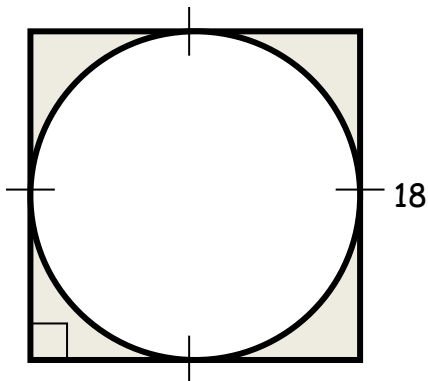
e) If a gallon of paint covers approximately 325ft^2 , how many gallons of paint would you need to paint the four walls of this room, if you only need one coat of paint? _____



Geometry/Trig 2
Unit 9 Mixed Review Homework

Directions: Answer each problem. Leave all answers in terms of π . Round any decimal answers to the nearest hundredth.

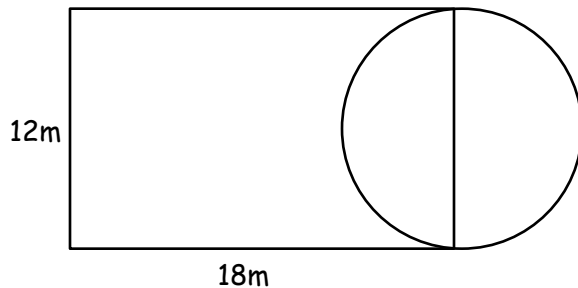
4. The below quadrilateral is circumscribed about the circle.



Area of the Shaded Region (in terms of π):

Area of the Shaded Region (decimal; use $\pi = 3.14$):

5. Find the area and perimeter of the figure shown below. (The figure consists of a half circle and a rectangle).



Area (in terms of π): _____

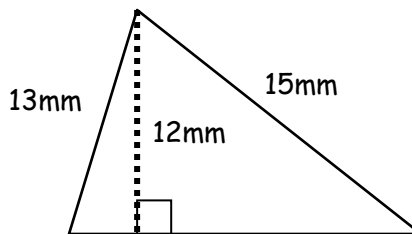
Area (decimal; use $\pi = 3.14$): _____

Perimeter (in terms of π): _____

Perimeter (decimal; use $\pi = 3.14$): _____

6. Given that a circular table has an area of 676π square inches, find the circumference of the table, in terms of π .

8. Find the area and perimeter.



7. Given that a trapezoid has an area of 120in^2 , a height of 10in , and one base that measures 10in , find the length of the second base.

Area = _____

Perimeter = _____