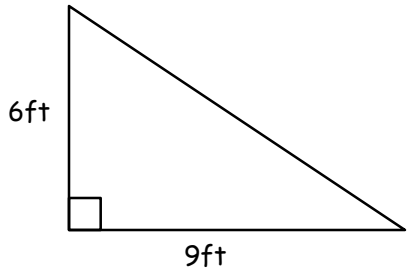
Geometry/Trig
Unit 9 Review Packet

Name _____
Date _____ Block _____

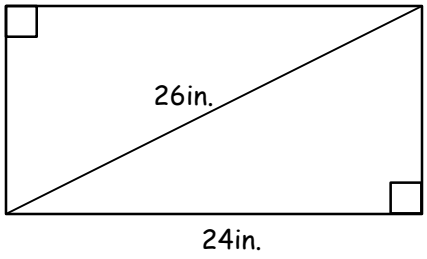
Directions: Find the area and perimeter of each figure. Leave your answers in simplified radical form.

1)



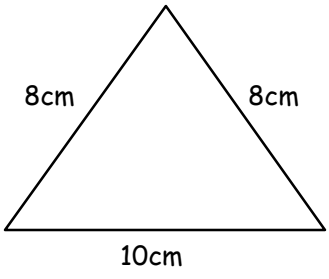
Area = _____ Perimeter = _____

2)



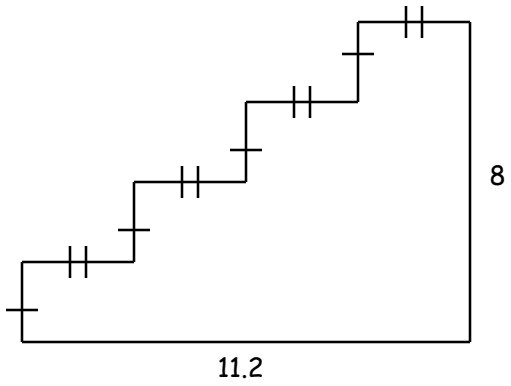
Area = _____ Perimeter = _____

3)



Area = _____ Perimeter = _____

4) Consecutive sides are perpendicular.



Area = _____ Perimeter = _____

5) A square with diagonal 4cm.

Area = _____ Perimeter = _____

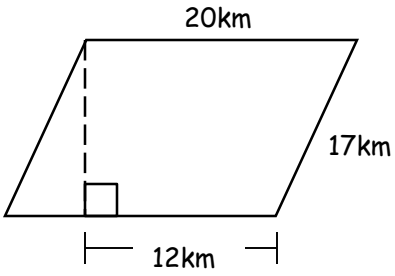
6) An isosceles right triangle with the hypotenuse of length 14 in .

Area = _____ Perimeter = _____

Geometry/Trig
Unit 9 Review Packet

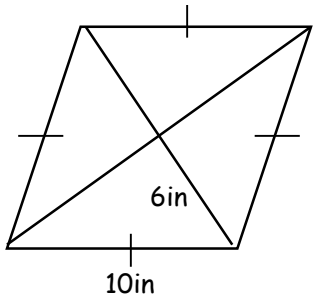
Directions: Find the area and perimeter of each figure. Leave your answers in simplified radical form.

7) The below figure is a parallelogram.



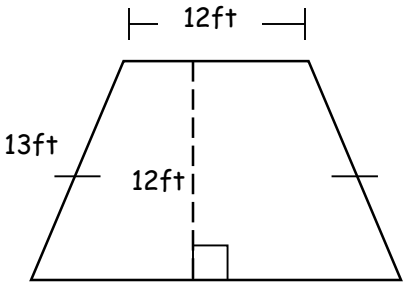
Area = _____ Perimeter = _____

8)



Area = _____ Perimeter = _____

9) The below figure is a trapezoid.



Area = _____ Perimeter = _____

10) A rhombus with diagonals 8m and 4m.

Area = _____ Perimeter = _____

11) A parallelogram with sides 6 and 10 that form a 30° angle.

Area = _____ Perimeter = _____

12) An isosceles trapezoid with legs 10ft and bases 6ft and 22ft.

Area = _____ Perimeter = _____

Geometry/Trig
Unit 9 Review Packet

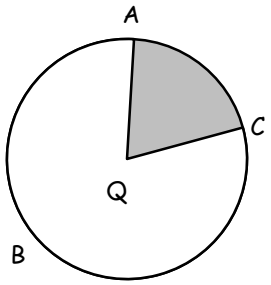
Directions: Answer the below questions. Leave your answers in terms of π and in simplified radical form.

13) A circle with diameter 10ft.

Area = _____

Circumference = _____

14) In Circle Q, m$\overset{\frown}{ABC}$ = 288° and QA = 10.

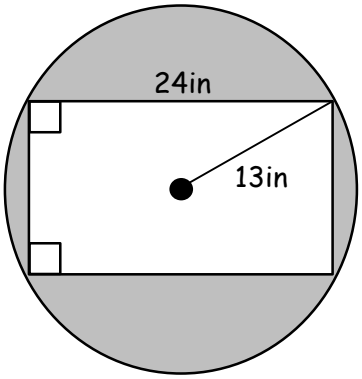


a. Find the circumference. _____

b. Find the length of AC. _____

c. Find the area of sector AQC. _____

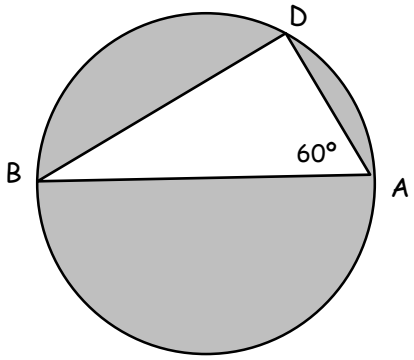
15) Find the area of the shaded region.



Area of the Shaded Region =

_____

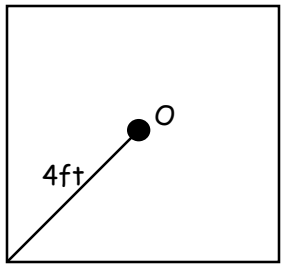
16) AB is a diameter of the circle, and has a length of 16cm. Find the area of the shaded region.



Geometry/Trig
Unit 9 Review Packet

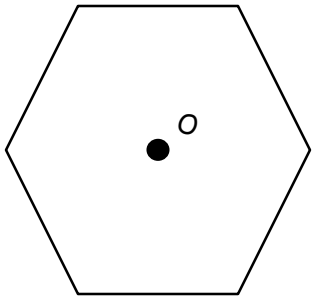
Directions: Find the area and perimeter of the below regular polygons. For #17 – 19, leave your answers in simplified radical form. For #20, round your answers to the nearest hundredth. O is the center of each polygon.

17)



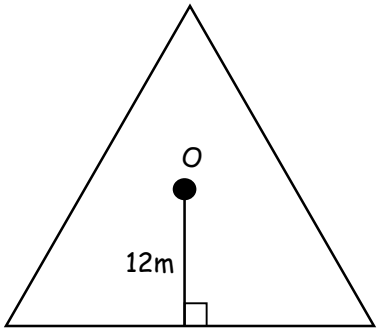
Area = _____ Perimeter = _____

18) Given a regular hexagon with apothem $2\sqrt{3}$ find the area and perimeter.



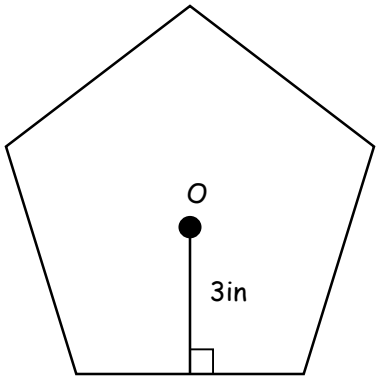
Area = _____ Perimeter = _____

19)



Area = _____ Perimeter = _____

20)

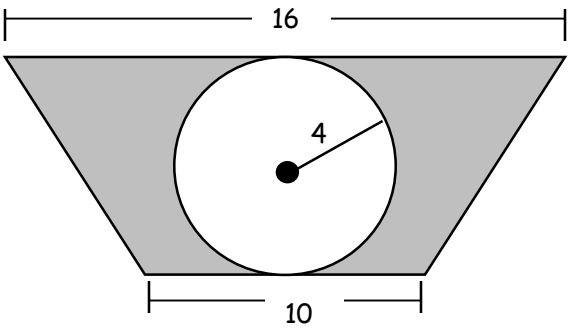


Area = _____ Perimeter = _____

Geometry/Trig
Unit 9 Review Packet

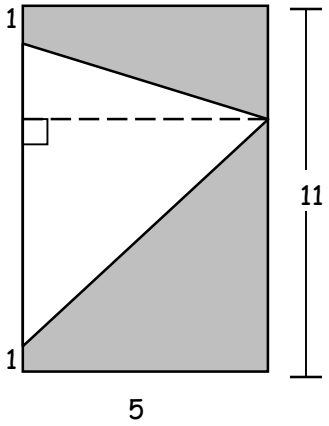
Directions: Find the area of the shaded region. Leave your answers in terms of π and in simplified radical form.

21) The bases of the trapezoid are tangent to the circle, and 4 is the radius of the circle.



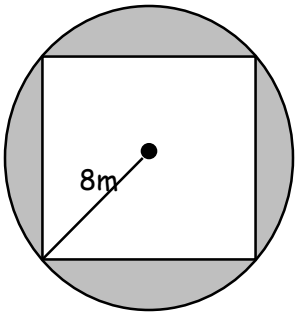
Area of the Shaded Region = _____

22)



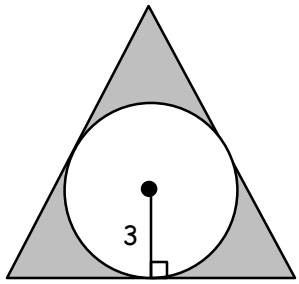
Area of the Shaded Region = _____

23) Given the square inscribed inside a circle, find the area of the shaded region. Leave your answer in terms of π.



Area of the Shaded Region = _____

24) Given the regular triangle circumscribed about the circle, find the area of the shaded region. Leave your answer in terms of π.



Area of the Shaded Region = _____