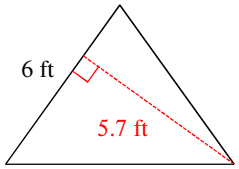
Geometry Name_____

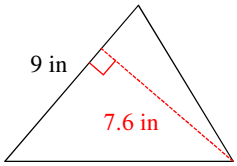
Section 11-1: Area of Triangles

Find the area of each triangle.

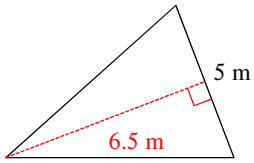
1)



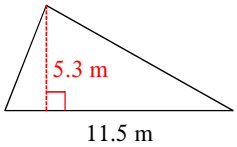
2)



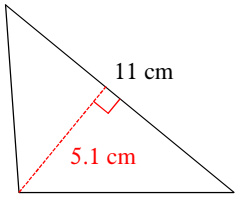
3)



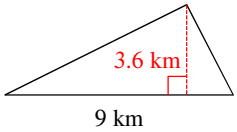
4)



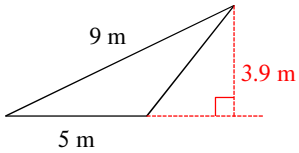
5)



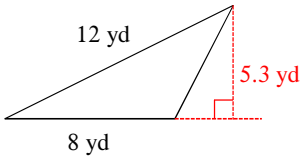
6)



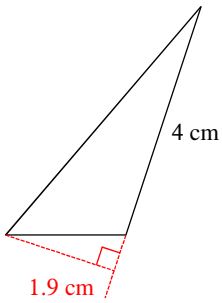
7)



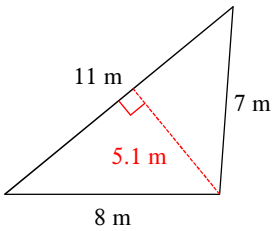
8)



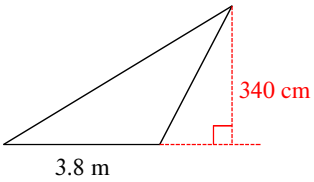
9)



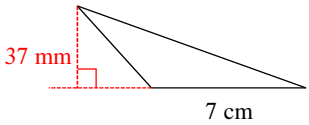
10)



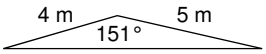
11)



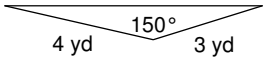
12)



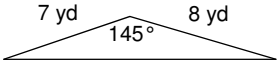
13)



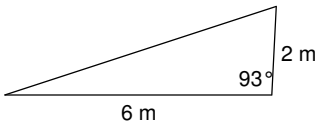
14)



15)

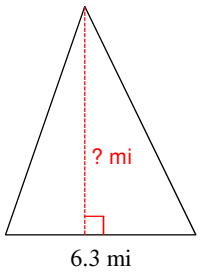


16)



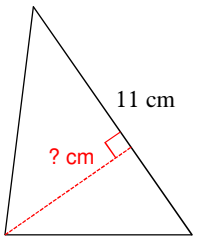
Find the missing measurement.

17)



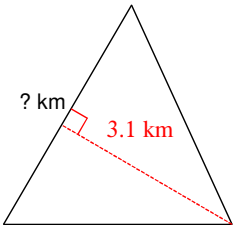
Area = 23.9 mi²

18)



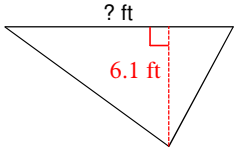
Area = 33.6 cm²

19)



Area = 6.2 km²

20)



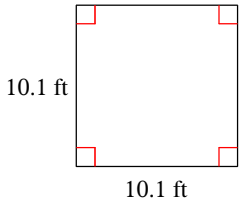
Area = 35.4 ft²

Geometry Name_____

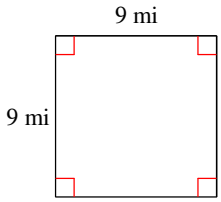
Sections 1-6, 11-1, 11-2: Area of Quadrilaterals

Find the area of each quadrilateral.

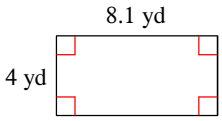
1)



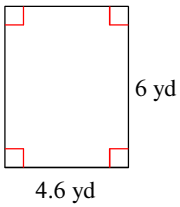
2)



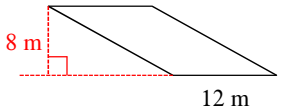
3)



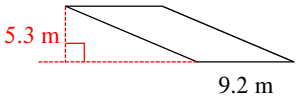
4)



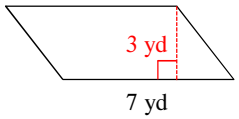
5)



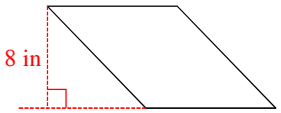
6)



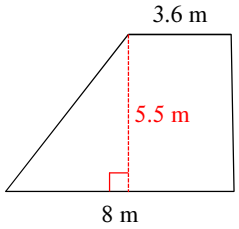
7)



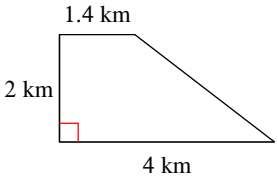
8)



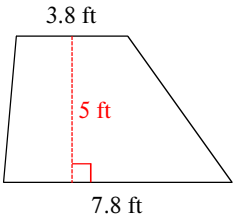
9)



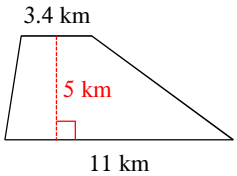
10)



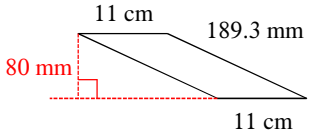
11)



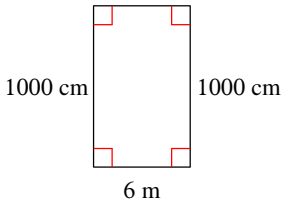
12)



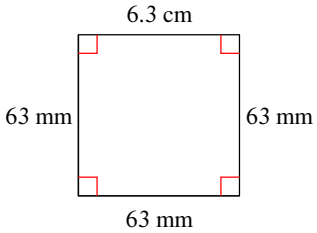
13)



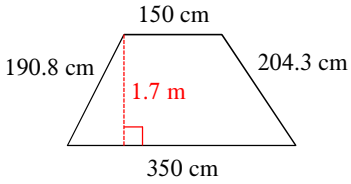
14)



15)

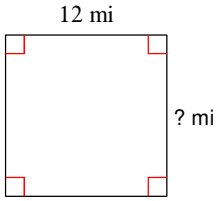


16)



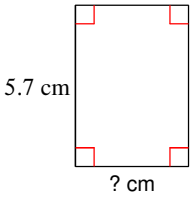
Find the missing measurement.

17)



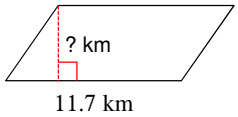
Area = 144 mi²

18)



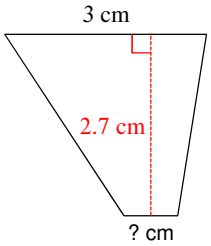
Area = 22.8 cm²

19)



Area = 58.5 km²

20)

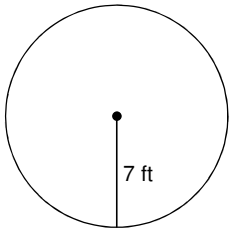


Area = 5.1 cm²

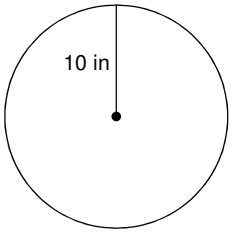
Section 1-6: Area of Circles

Find the area of each. Use your calculator's value of π.

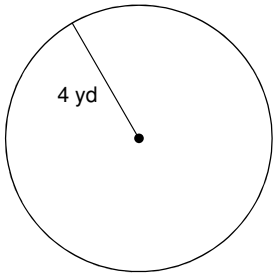
1)



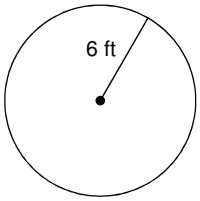
2)



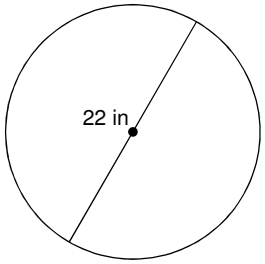
3)



4)

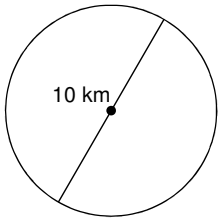


5)

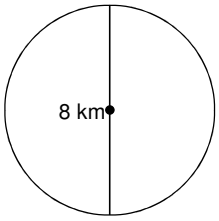


6)

7)



8)



9) radius = 9.8 mi

10) radius = 5.6 mi

11) diameter = 24 mi

12) diameter = 8 mi

Find the radius of each circle. Use your calculator's value of π.

13) circumference = 73.5 yd

14) circumference = 47.1 yd

15) area = 113.1 ft^2

16) area = 201.1 in^2

Find the circumference of each circle. Use your calculator's value of π.

17) area = 102.1 yd^2

18) area = 109.4 ft^2

Find the area of each. Use your calculator's value of π.

19) circumference = 25.8 in

20) circumference = 62.2 ft

Challenge Question:

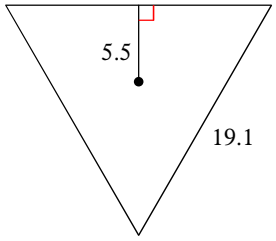
21) Find the radius of a circle so that its area and circumference are equal.

Geometry Name_____

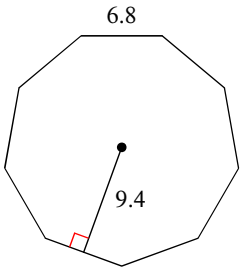
Section 11-4: Area of Regular Polygons

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

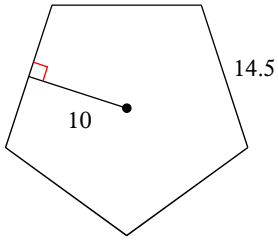
1)



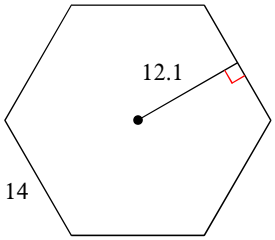
2)



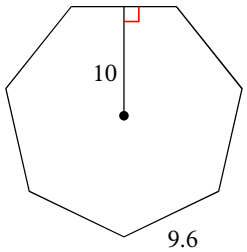
3)



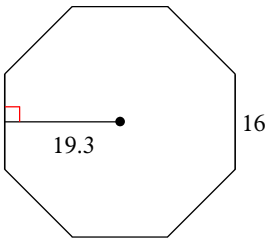
4)



5)



6)



7) pentagon
apothem = 6.9
side = 10

8) octagon
apothem = 7
side = 5.8

9) nonagon
apothem = 15
side = 10.9

10) hexagon
apothem = 8.7
side = 10