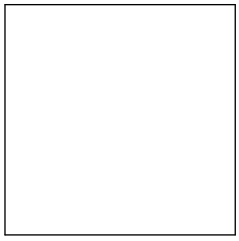
Quadrilaterals, Circles, and Arcs Practice Test

Date_____ Period____

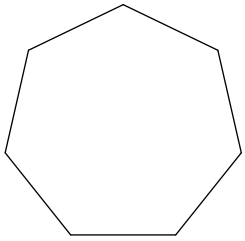
Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

1)



A) 540° B) 900°
C) 720° D) 360°

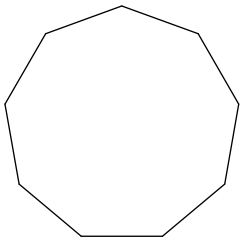
2)



A) 1440° B) 1080°
C) 900° D) 360°

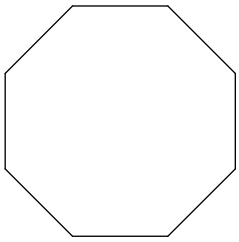
Find the measure of ONE interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

3)



A) 144° B) 108°
C) 90° D) 140°

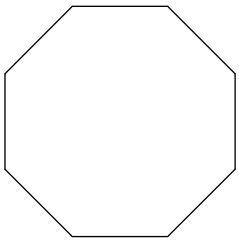
4)



A) 120° B) 135°
C) 150° D) 140°

Find the measure of ONE EXTERIOR angle in each regular polygon. Round your answer to the nearest tenth if necessary.

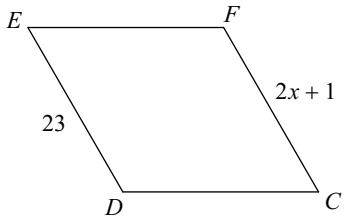
5)



A) 60° B) 45°
C) 27.7° D) 32.7°

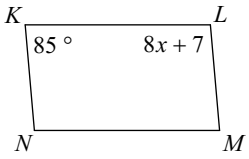
Solve for *x*. Each figure is a parallelogram.

6)



A) 11 B) 2
C) 9 D) 5

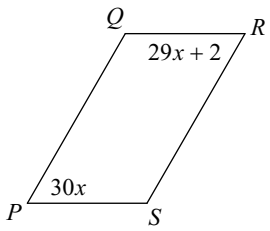
7)



A) 6 B) 12
C) 2 D) 11

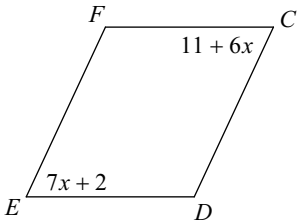
Find the measurement indicated in each parallelogram.

8) Find $m\angle P$



A) 60° B) 85°
C) 30° D) 32°

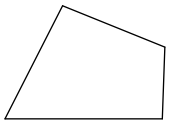
9) Find $m\angle D$



A) 115° B) 95°
C) 110° D) 65°

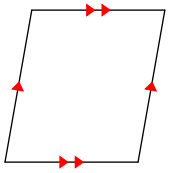
State the most specific name for each figure.

10)



A) rectangle B) quadrilateral
C) rhombus D) parallelogram

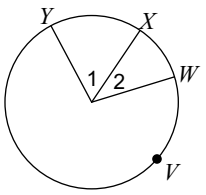
11)



A) quadrilateral
B) parallelogram
C) rhombus
D) rectangle

Name the arc made by the given angle.

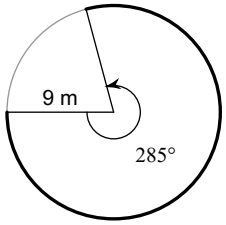
12) Major arc for $\angle 2$



A) $\overset{\frown}{XVW}$ B) $\overset{\frown}{YX}$
C) $\overset{\frown}{XW}$ D) $\overset{\frown}{YWX}$

Find the length of each arc.

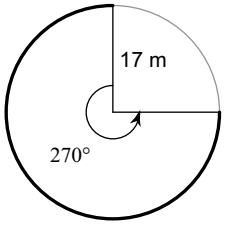
13)



A) $\frac{7\pi}{6}$ m B) $\frac{55\pi}{4}$ m

C) $\frac{5491\pi}{24}$ m D) $\frac{57\pi}{4}$ m

14)

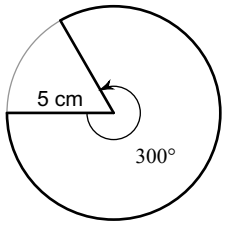


A) $\frac{100\pi}{3}$ m B) $\frac{51\pi}{2}$ m

C) $\frac{1083\pi}{8}$ m D) $\frac{128\pi}{3}$ m

Find the area of each sector.

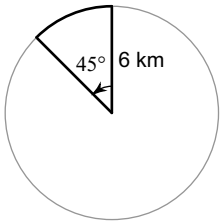
15)



A) $\frac{25\pi}{3}$ cm² B) $\frac{125\pi}{6}$ cm²

C) $\frac{3211\pi}{24}$ cm² D) 96π cm²

16)

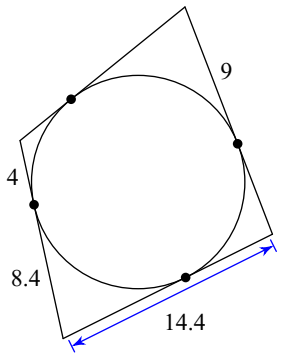


A) $\frac{1150\pi}{3}$ km² B) $\frac{9\pi}{2}$ km²

C) $\frac{3\pi}{2}$ km² D) $\frac{4\pi}{3}$ km²

Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

17)

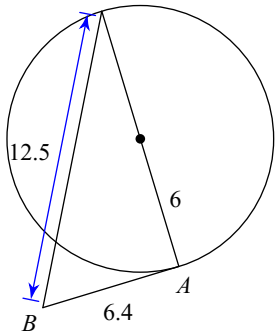


A) 42.2 B) 45.1

C) 54.8 D) 38.6

Determine if line AB is tangent to the circle.

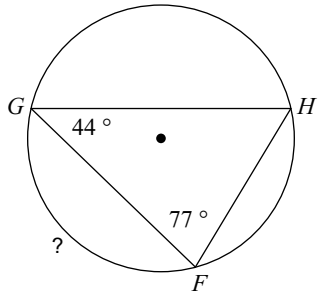
18)



A) Not tangent B) Tangent

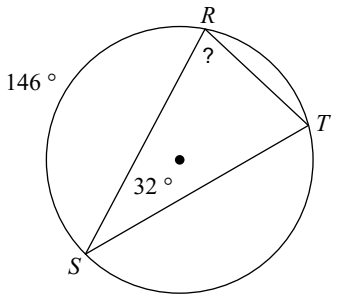
Find the measure of the arc or angle indicated.

19)



A) 118° B) 116°
C) 84° D) 100°

20)



A) 111° B) 69°
C) 75° D) 100°

Answers to Quadrilaterals, Circles, and Arcs Practice Test (ID: 1)

1) D
2) C
3) D
4) B
5) B
6) A
7) D
8) A
9) A
10) B
11) B
12) A
13) D
14) B
15) B
16) B
17) C
18) A
19) A
20) C