Geometry Name_____

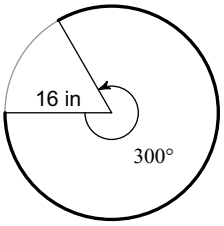


# Circles Mixed Review

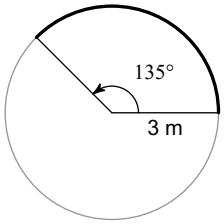
Date_____ Period____

**Find the length of each arc. Use the exact value (as a reduced fraction, including pi).**

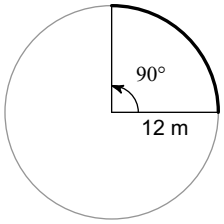
1)




2)




3)

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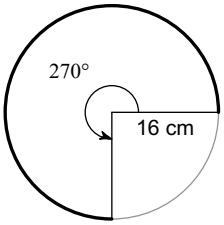


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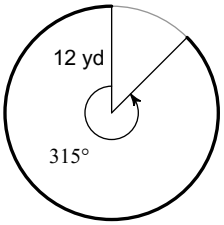


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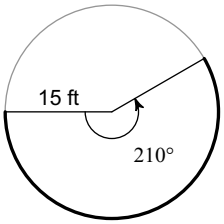
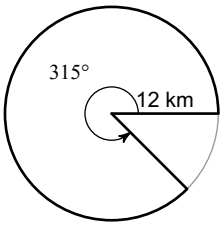
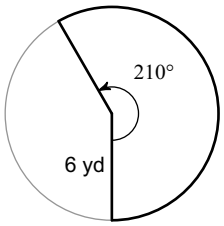



**Find the area of each sector. Use the exact value (as a reduced fraction, including pi).**

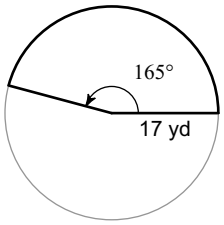
7)



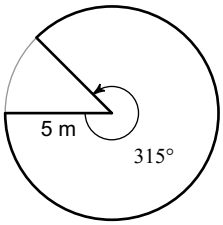

8)




9)




10)

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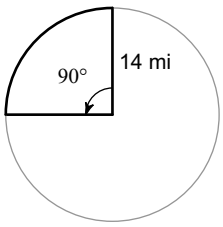
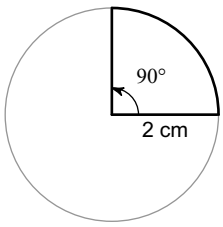


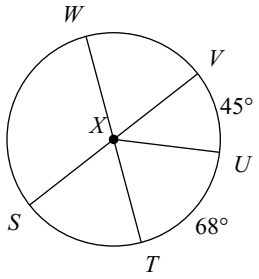

12)



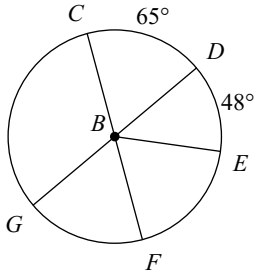

  

**Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.**

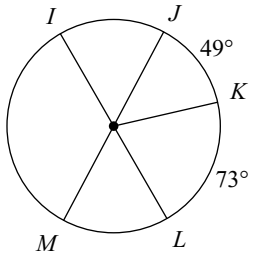
13) $m\angle UXS$



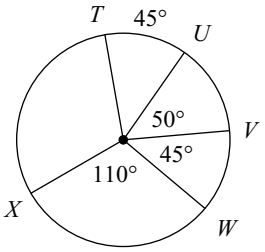

14) $m\angle GBC$



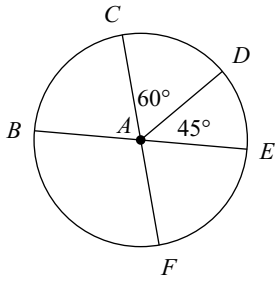

15) $m\widehat{MI}$



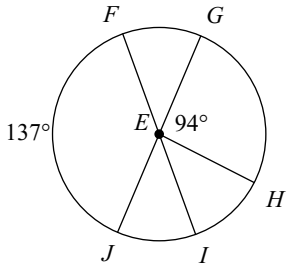

16) $m\widehat{WXU}$




17) $m\angle EAF$

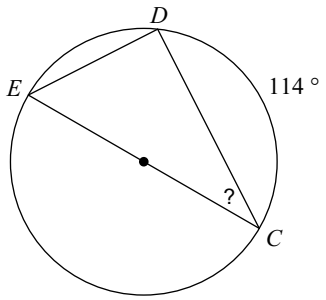



18) $m\angle FEG$

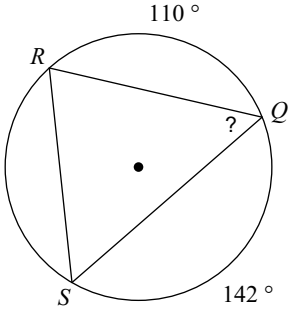



**Find the measure of the arc or angle indicated.**

19)

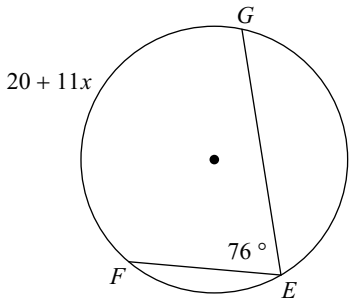



20)

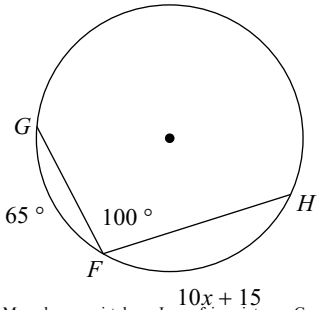



**Solve for *x*.**

21)

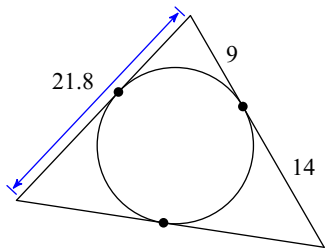



22)

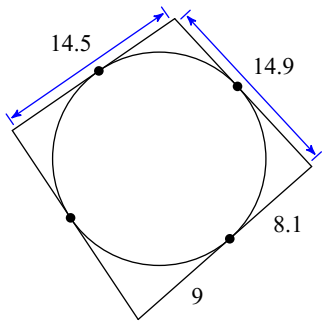


**Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent. You will need to find the missing lengths first.**

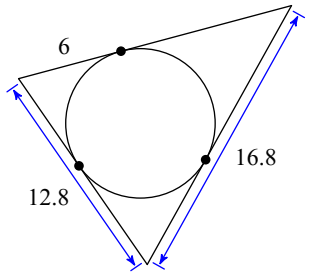
23)



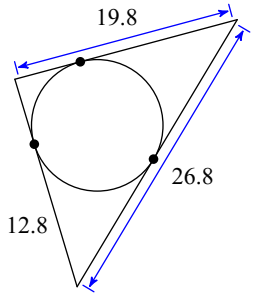

24)



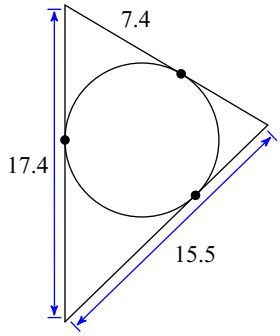

25)



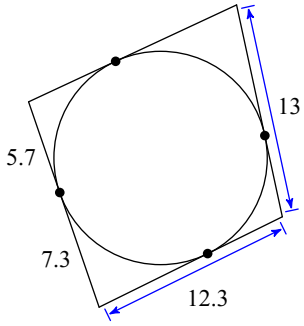

26)




27)

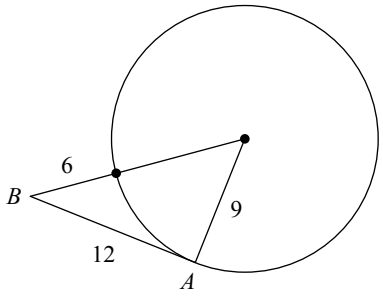



28)

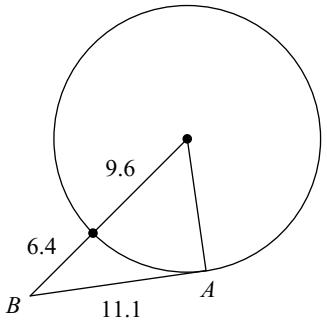



**Determine if line AB is tangent to the circle.**

29)

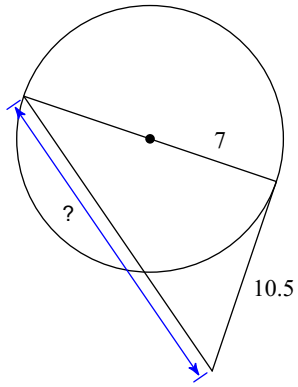



30)

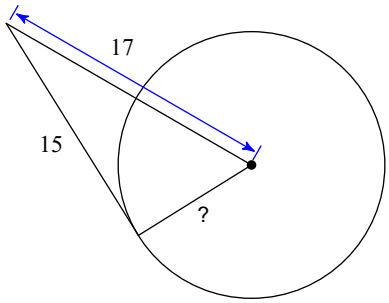


**Find the segment length indicated. Assume that lines which appear to be tangent are tangent.**

31)

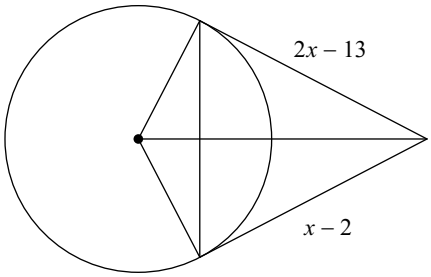



32)

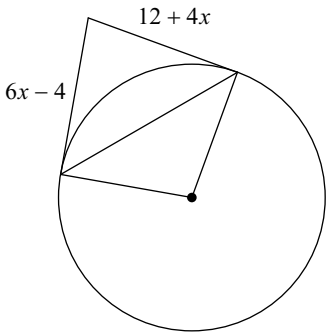



**Solve for *x*. Assume that lines which appear to be tangent are tangent.**

33)

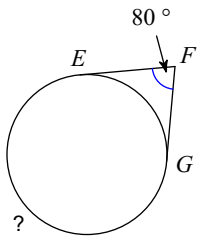



34)

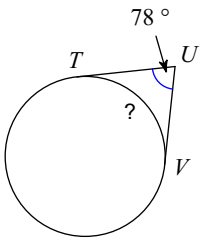



**Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.**

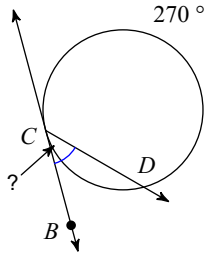
35)



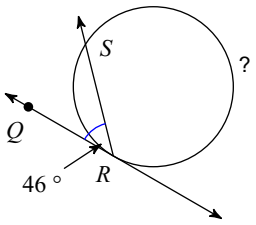

36)



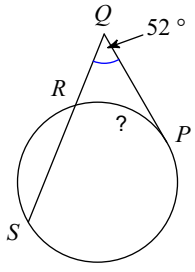

37)



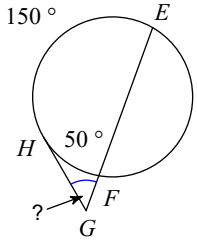

38)




39)




40)



# Answers to Circles Mixed Review

1) $\frac{80\pi}{3}$ in
2) $\frac{9\pi}{4}$ m
3) $6\pi$ m
4) $24\pi$ cm
5) $21\pi$ yd
6) $\frac{35\pi}{2}$ ft
7) $126\pi$ km²
8) $21\pi$ yd²
9) $\frac{3179\pi}{24}$ yd²
10) $\frac{175\pi}{8}$ m²
11) $49\pi$ mi²
12) $\pi$ cm²
13) 135°
14) 115°
15) 122°
16) 265°
17) 75°
18) 43°
19) 33°
20) 54°
21) 12
22) 8
23) 71.6
24) 63.2
25) 45.6
26) 65.2
27) 45.8
28) 52
29) Tangent
30) Not tangent
31) 17.5
32) 8
33) 11
34) 8
35) 260°
36) 102°
37) 45°
38) 268°
39) 76°
40) 50°