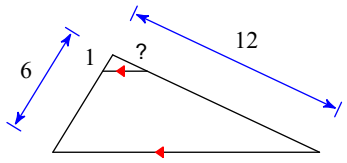
Geometry Name_____ ID: 1

Activity 0302

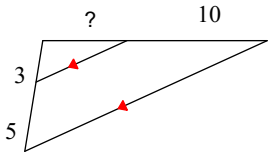
Date_____ Period____

Find the missing length indicated.

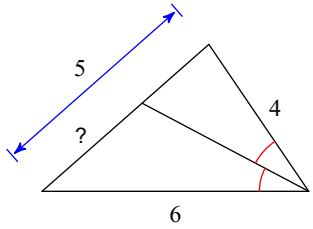
1)



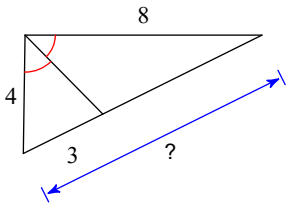
2)



3)

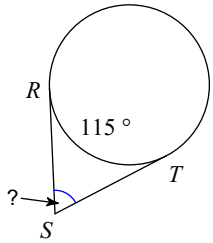


4)

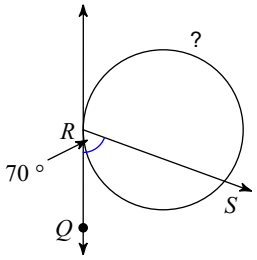


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

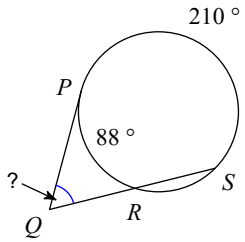
5)



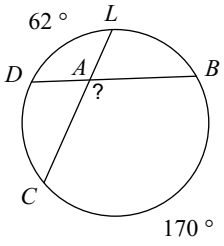
6)



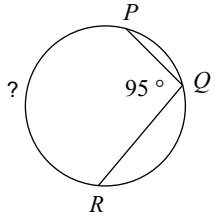
7)



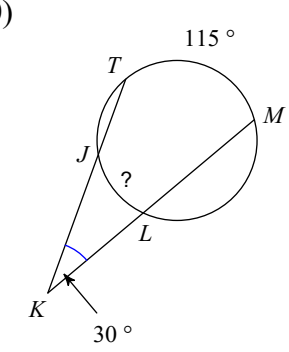
8)



9)

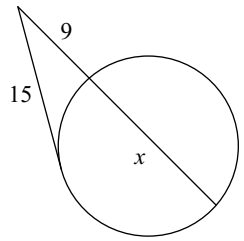


10)

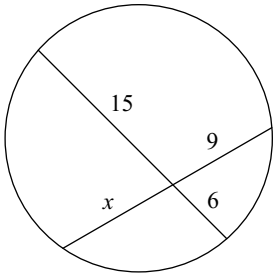


Solve for *x*. Assume that lines which appear tangent are tangent.

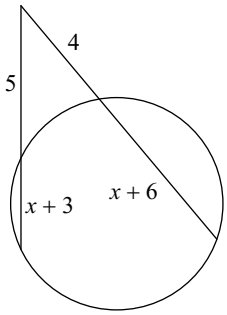
11)



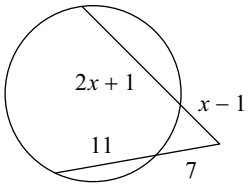
12)



13)



14)

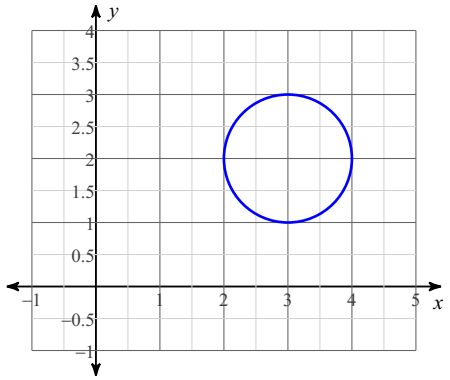


Use the information provided to write the equation of each circle.

15) Ends of a diameter: $(1, -12)$ and $(15, -8)$

16) Center lies in the first quadrant
Tangent to $x = -2$, $y = 16$, and $y = 6$

17)



18) Three points on the circle:
$(15, -2)$, $(3, -2)$, and $(16, -1)$

Answers to Activity 0302 (ID: 1)

1) 2
2) 6
3) 3
4) 9
5) 65°
6) 220°
7) 61°
8) 116°
9) 190°
10) 55°
11) 16
12) 10
13) 0
14) 7
15) $(x-8)^2+(y+10)^2=53$
16) $(x-3)^2+(y-11)^2=25$
17) $(x-3)^2+(y-2)^2=1$
18) $(x-9)^2+(y-5)^2=85$