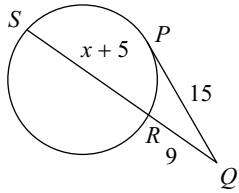
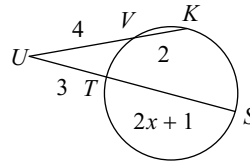


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

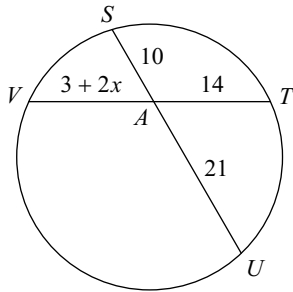
1) Find RS



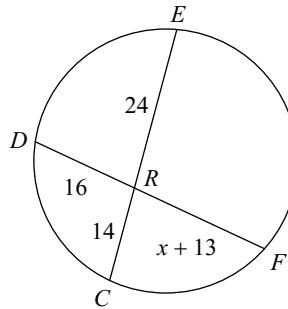
2) Find SU



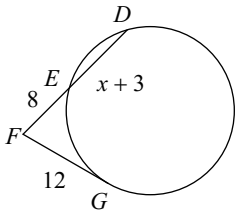
3) Find AV



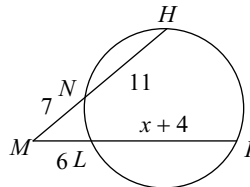
4) Find DF



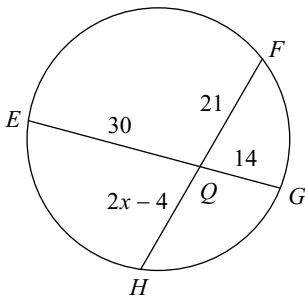
5) Find FD



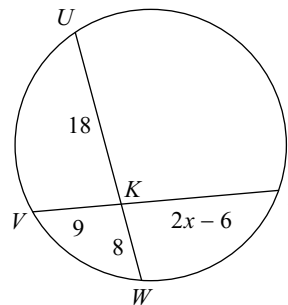
6) Find KM



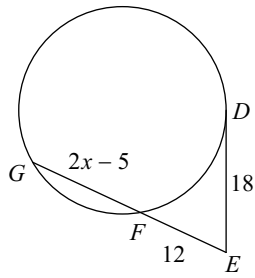
7) Find FH



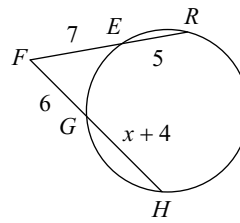
8) Find KT



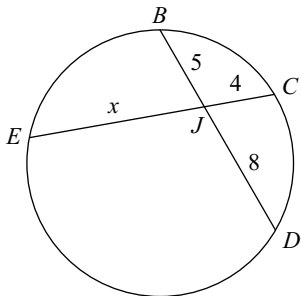
9) Find FG



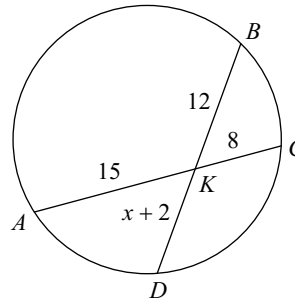
10) Find HG



11) Find JE



12) Find KD



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

13) Center: $(-7, 13)$
Radius: 4

14) Center: $\left(15, \frac{27}{2}\right)$
Radius: 2

15) Center: $(13, 16)$
Radius: 1

16) Center: $(-8, -8)$
Radius: 2

17) Ends of a diameter: $(-5, 9)$ and $(-9, 9)$

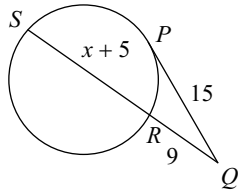
18) Ends of a diameter: $(13, 9)$ and $(5, -5)$

19) Center: $(-12, -9)$
Point on Circle: $(-6, -6)$

20) Center: $(-9, 8)$
Point on Circle: $(-17, 8)$

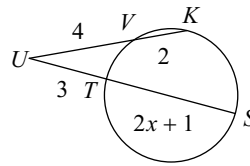
Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

1) Find RS



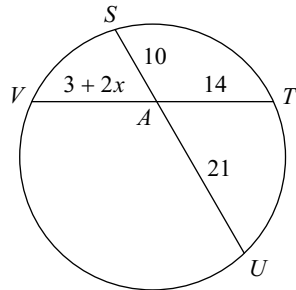
16

2) Find SU



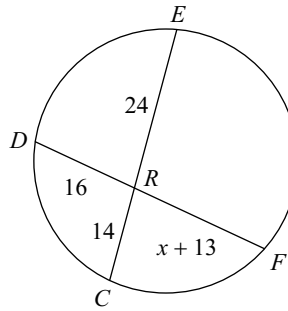
8

3) Find AV



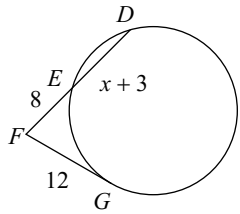
15

4) Find DF



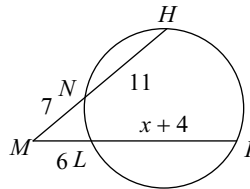
37

5) Find FD



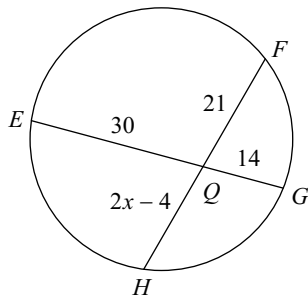
18

6) Find KM



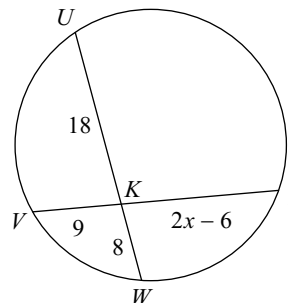
21

7) Find FH



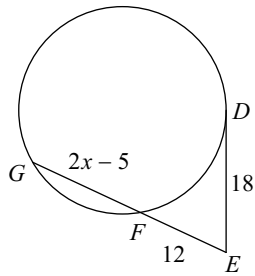
41

8) Find KT



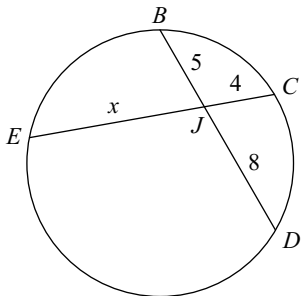
16

9) Find FG



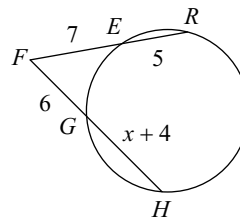
15

11) Find JE



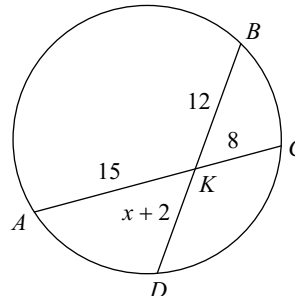
10

10) Find HG



8

12) Find KD



10

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

13) Center: $(-7, 13)$
Radius: 4

$$(x + 7)^2 + (y - 13)^2 = 16$$

14) Center: $\left(15, \frac{27}{2}\right)$
Radius: 2

$$(x - 15)^2 + \left(y - \frac{27}{2}\right)^2 = 4$$

15) Center: $(13, 16)$
Radius: 1

$$(x - 13)^2 + (y - 16)^2 = 1$$

16) Center: $(-8, -8)$
Radius: 2

$$(x + 8)^2 + (y + 8)^2 = 4$$

17) Ends of a diameter: $(-5, 9)$ and $(-9, 9)$

$$(x + 7)^2 + (y - 9)^2 = 4$$

18) Ends of a diameter: $(13, 9)$ and $(5, -5)$

$$(x - 9)^2 + (y - 2)^2 = 65$$

19) Center: $(-12, -9)$
Point on Circle: $(-6, -6)$

$$(x + 12)^2 + (y + 9)^2 = 45$$

20) Center: $(-9, 8)$
Point on Circle: $(-17, 8)$

$$(x + 9)^2 + (y - 8)^2 = 64$$