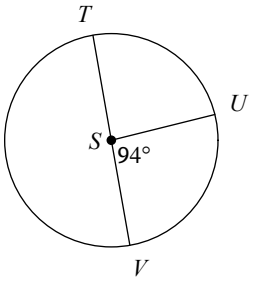
Secondary Math 2 Name_____

Unit 9 Review

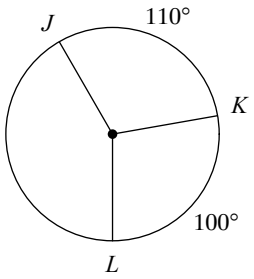
Date_____ Period____

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

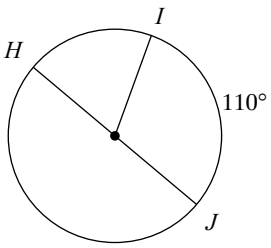
1) $m\angle TSU$



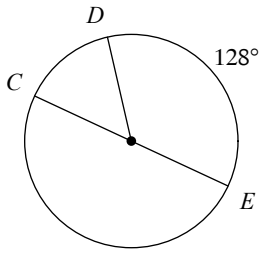
2) $m\widehat{LJK}$



3) $m\widehat{HI}$

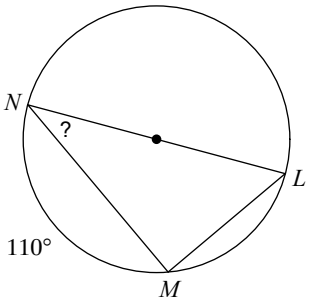


4) $m\widehat{DEC}$

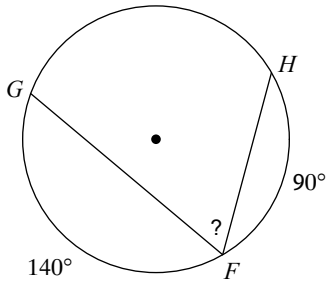


Find the measure of the arc or angle indicated.

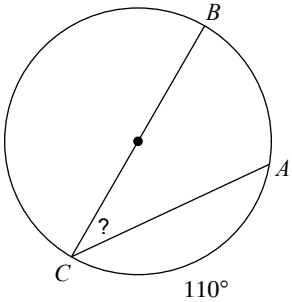
5)



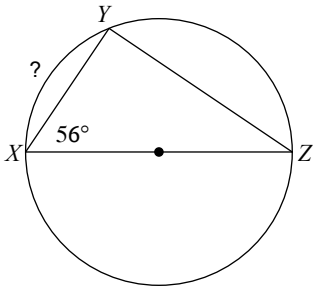
6)



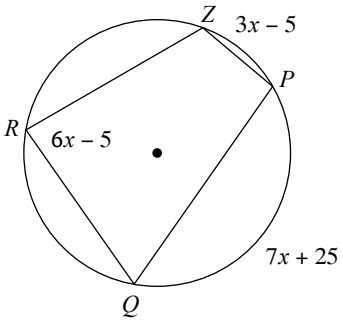
7)



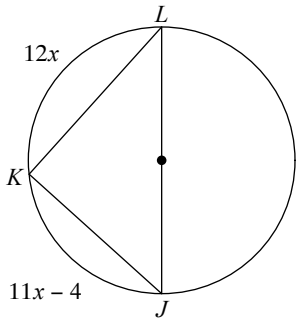
8)



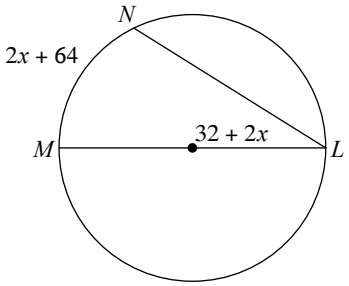
9) Find $m\angle ZRQ$



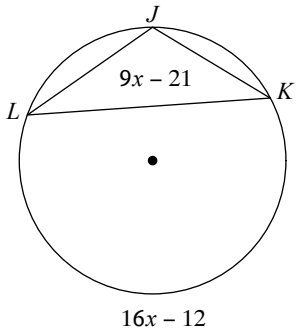
10) Find $m\angle LJK$



11) Find $m\widehat{MN}$

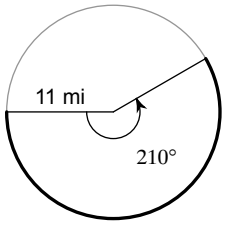


12) Find $m\angle LJK$

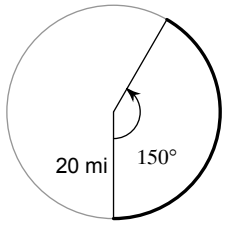


Find arc length and sector area for each. Give both exact and approximate answers.

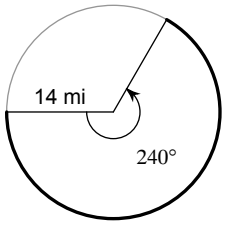
13)



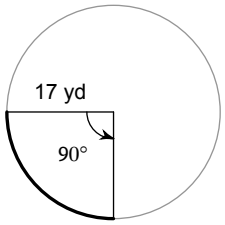
14)



15)

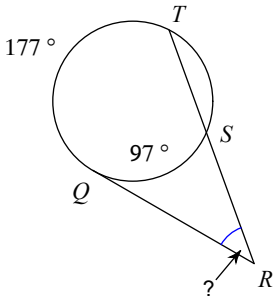


16)

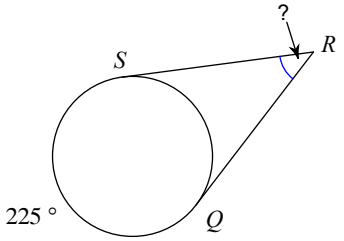


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

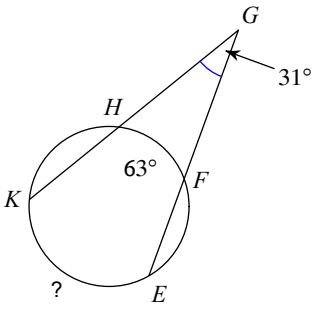
17)



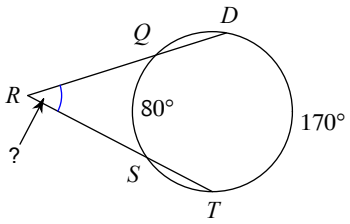
18)



19)

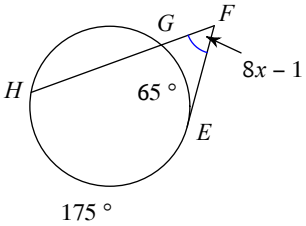


20)

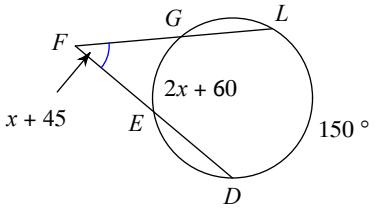


Solve for *x*. Assume that lines which appear tangent are tangent.

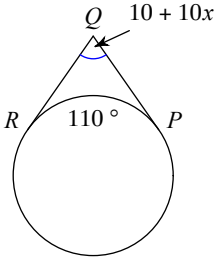
21)



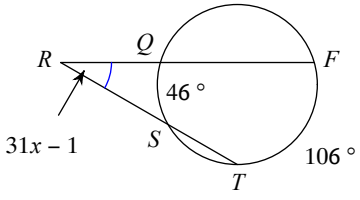
22)



23)

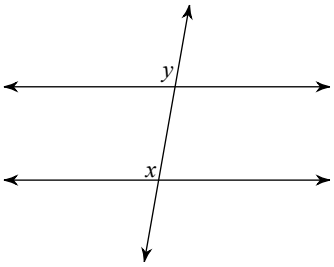


24)

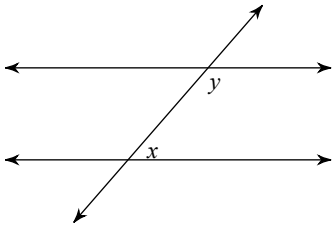


Identify the angle relationship. Then state if the angles are congruent or supplementary.

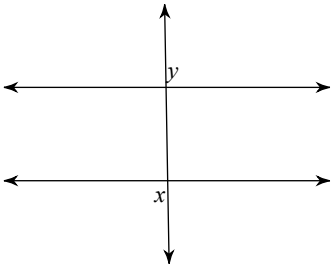
25)



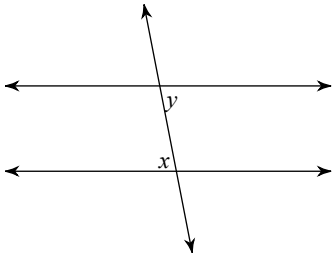
26)



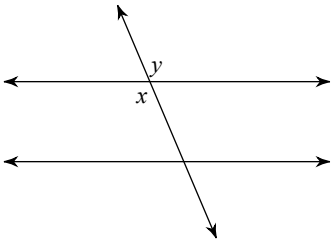
27)



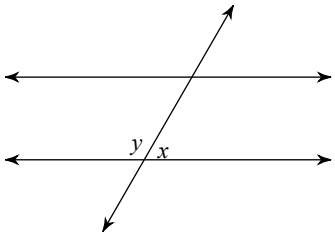
28)



29)

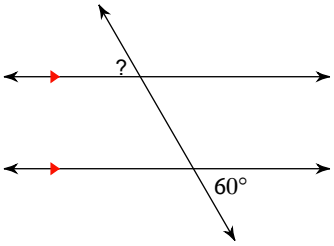


30)

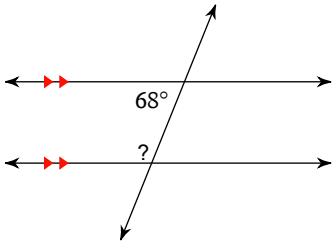


Find the measure of each angle indicated.

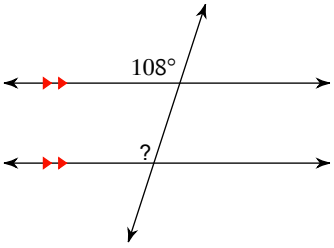
31)



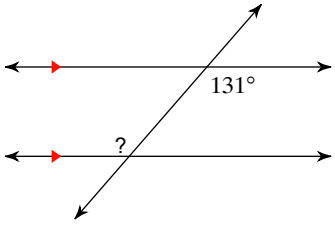
32)



33)

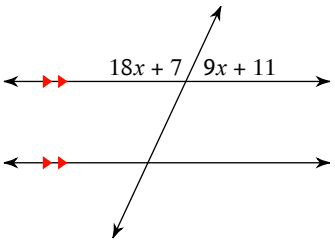


34)

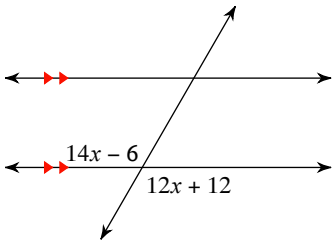


Solve for *x*.

35)

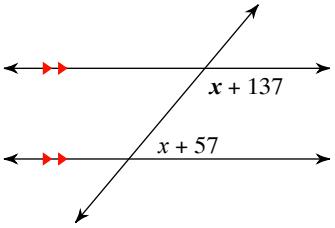


36)

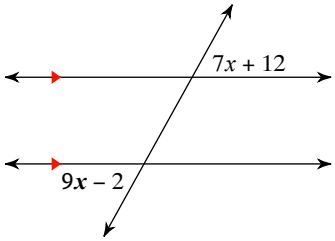


Find the measure of both angles.

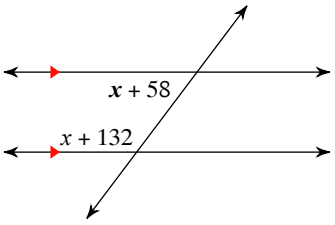
37)



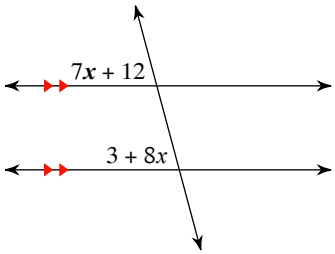
38)



39)

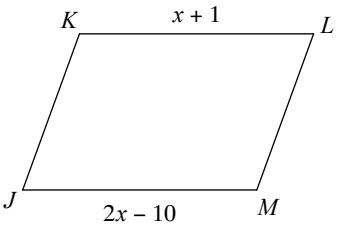


40)

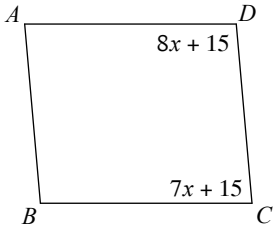


Find the measurement indicated in each parallelogram.

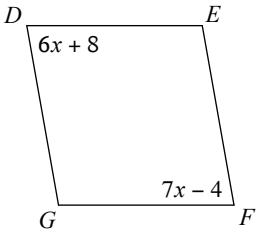
41) Find *KL*



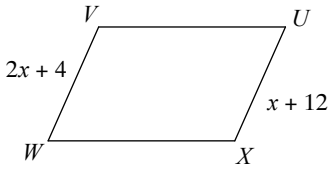
42) Find $m\angle D$



43) Find $m\angle G$



44) Find WV



Solve the following equations.

45) $0 = x^2 + 6x - 40$

46) $0 = 2x^2 - 22x + 56$

47) $0 = x^2 + 9x + 14$

48) $0 = 3x^2 + x - 10$