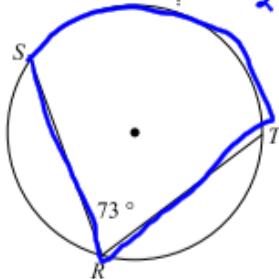
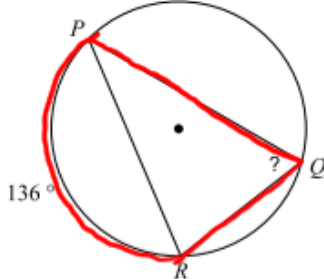
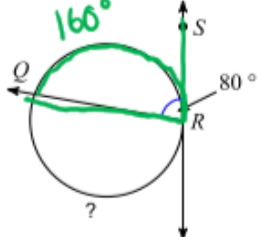


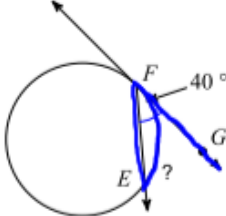
Inscribed angles and Tangents

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

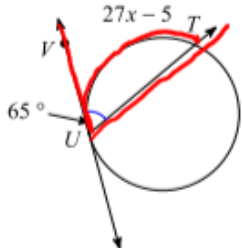
1)  $2(73) = ?$
 $146 = ?$

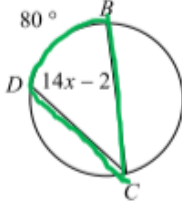
2)  $2(?) = 136^\circ$
 $? = 68^\circ$

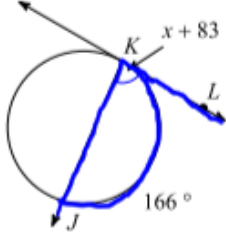
3)  $2(80) = 160^\circ$
 $? + 160 = 360$
 $? = 200^\circ$

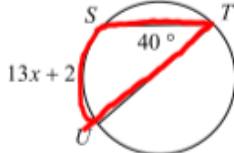
4)  $2(40) = ?$
 $? = 80^\circ$

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

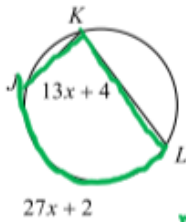
5)  $2(65) = 27x - 5$
 $130 = 27x - 5$
 $135 = 27x$
 $x = 5$

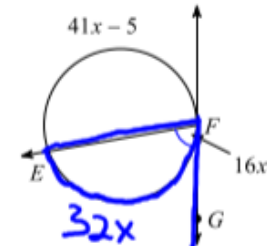
6)  $2(14x - 2) = 80$
 $18x - 4 = 80$
 $18x = 84$
 $x = 6$

7)  $2(x + 83) = 166$
 $2x + 166 = 166$
 $2x = 0$
 $x = 0$

8)  $2(40) = 13x + 2$
 $80 = 13x + 2$
 $78 = 13x$
 $x = 6$

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

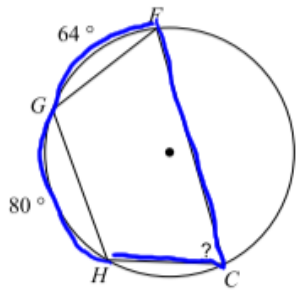
9) Find $m\widehat{JL}$
 $2(13x + 4) = 27x + 2$
 $26x + 8 = 27x + 2$
 $6 = x$
 $m\widehat{JL} = 27(6) + 2 = 164^\circ$

10) Find $m\angle EFG$
 $2(16x) = 32x$
 $32x + 41x - 5 = 360$
 $73x = 365$
 $x =$

Inscribed Quadrilaterals

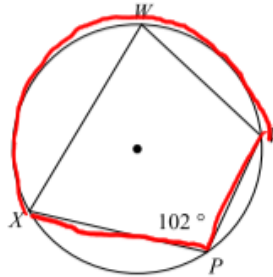
Find the measure of the arc or angle indicated.

1)



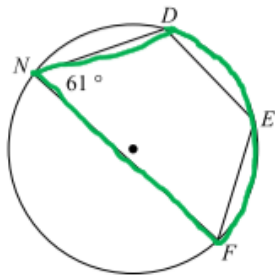
$2(?) = 184$
 $? = 92^\circ$

2) Find $m\widehat{XWV}$



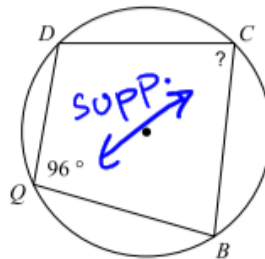
$2(102) = m\widehat{XWV}$
 $204 = m\widehat{XWV}$

3) Find $m\widehat{DF}$



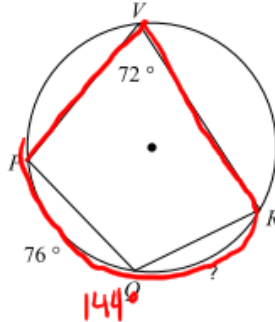
$2(61) = m\widehat{DF}$
 $m\widehat{DF} = 122^\circ$

4)



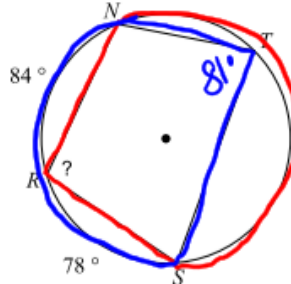
$180 - 96 = 84^\circ$

5)



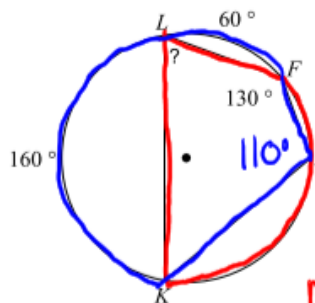
$2(72) = 144$
 $m\widehat{RQ} = 144 - 76$
 $m\widehat{RQ} = 68^\circ$

6)



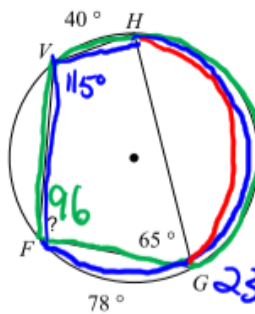
$2(m\angle T) = 84 + 78$
 $2m\angle T = 162^\circ$
 $m\angle T = 81^\circ$

7)



$2(m\angle J) = (60 + 60)$
 $2m\angle J = 220^\circ$
 $m\angle J = 110^\circ$
 $m\angle L = 180 - 110$
 $m\angle L = 70^\circ$

8)



$m\angle V = 180 - 65$
 $m\angle V = 115^\circ$
 $m\widehat{HGF} = 2(115)$
 $m\widehat{HGF} = 230^\circ$
 $m\widehat{HG} = 230 - 78 = 152^\circ$
 $m\widehat{VHG} = 152 + 40$
 $= 192^\circ$
 $2(m\angle F) = 192$
 $m\angle F = 96^\circ$