

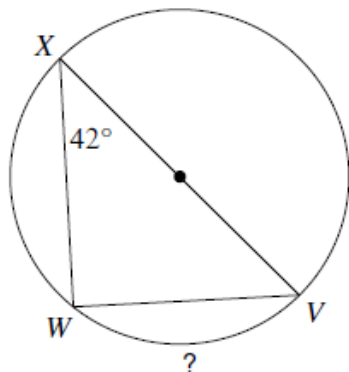
12.1-12.2 Inscribed Polygons & Arc Length
Pre-AP Geometry

Name _____
 Period _____ Date _____

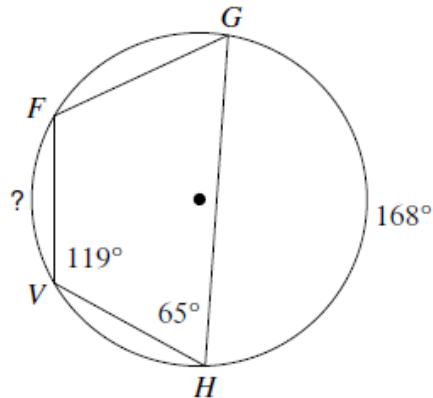
Directions: All work must be shown to receive full credit. Figures are not drawn to scale.

For #1-2, Find the missing arc measure.

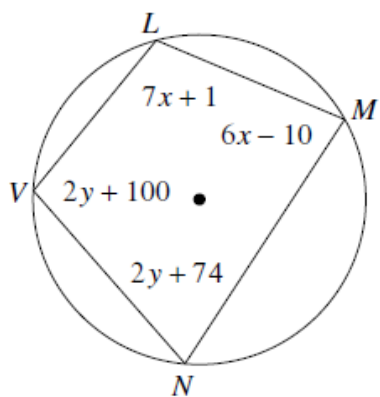
1)



2)

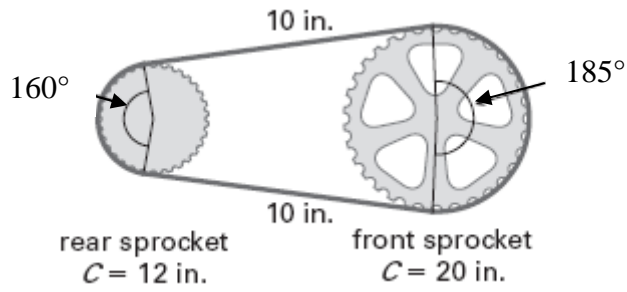


3) Find x and y .



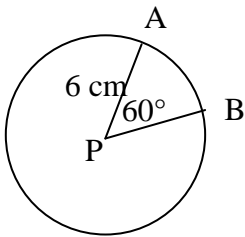
4) Quadrilateral EFGH is inscribed in a circle. Solve for x and find $m\angle H$ if $m\angle E = (x^2 + 20)^\circ$, $m\angle F = (2(x^2 - 40))^\circ$, $m\angle G = (4(x+5))^\circ$.

5) The chain of a bicycle travels along the front and rear sprockets, as shown. The circumference of each sprocket is given. About how long is the chain? _____

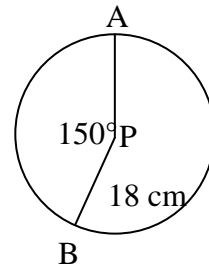


For #6-7 find the length of \widehat{AB} .

6) _____



7) _____



8) Find the radius of circle F.

