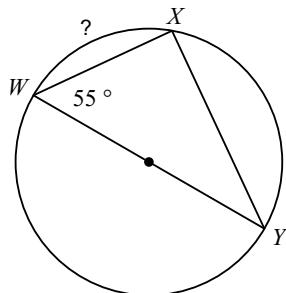


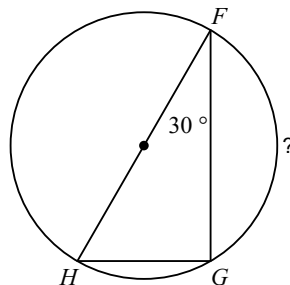
12.1 ~ Inscribed Triangles & Quadrilaterals

Use the Inscribed Right Triangle-Diameter Theorem or the Inscribed Quadrilateral-Opposite Angles Theorem to find the measure of the arc or angle indicated.

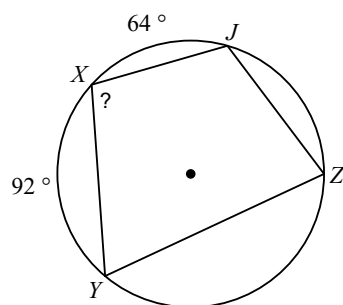
1)



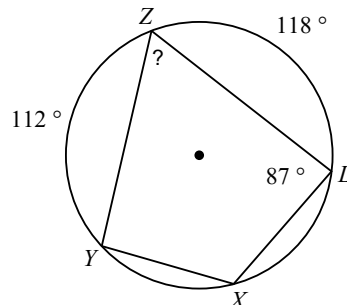
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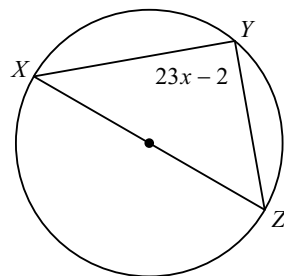


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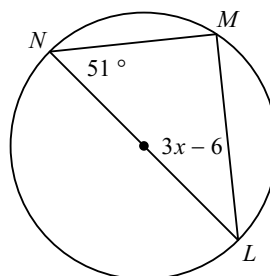


Use the Inscribed Right Triangle-Diameter Theorem to set up and solve an equation to find the value of x .

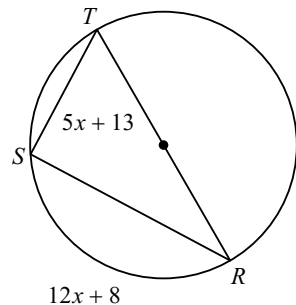
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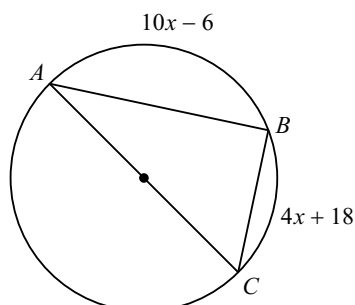
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7)

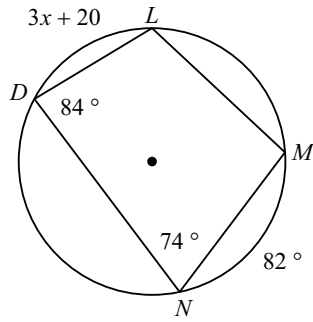


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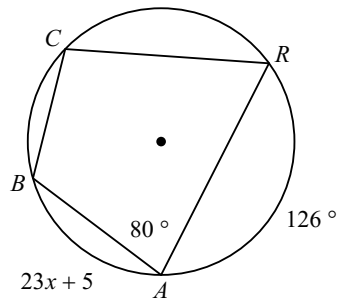


Use the Inscribed Quadrilateral-Opposite Angles Theorem to set up and solve an equation to find the value of x .

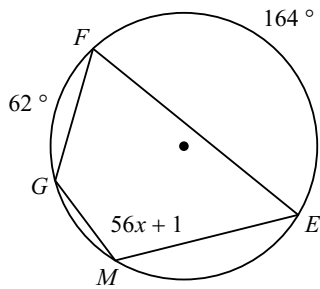
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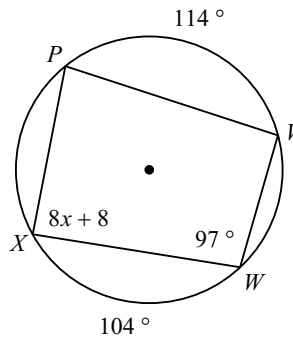
10)



11)

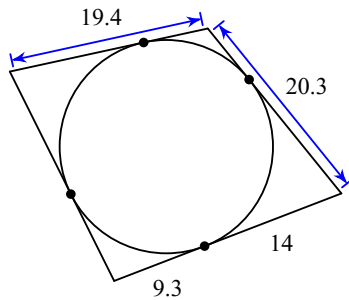


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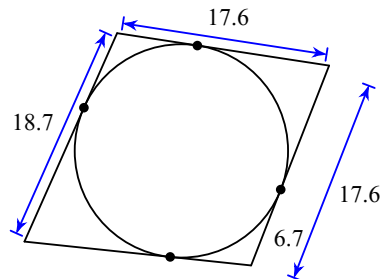


Consider the quadrilateral shown, which is circumscribed about a circle. Use the Tangent Segment Theorem to determine the perimeter of each quadrilateral.

13)



14)



Use the Inscribed Quadrilateral-Opposite Angles Theorem to set up and solve a system of equations to find the values of x and y .

15)

