March 12, 2020

Questions?

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You should know:
central angles,
inscribed angles,
area and lengths of sectors and arcs.

Now on to
lengths of chords
tangents

HW 10-38 to 10-42 and 10-48 to 10-53

What's the relationship between the central angle and the inscribed angle of a circle?

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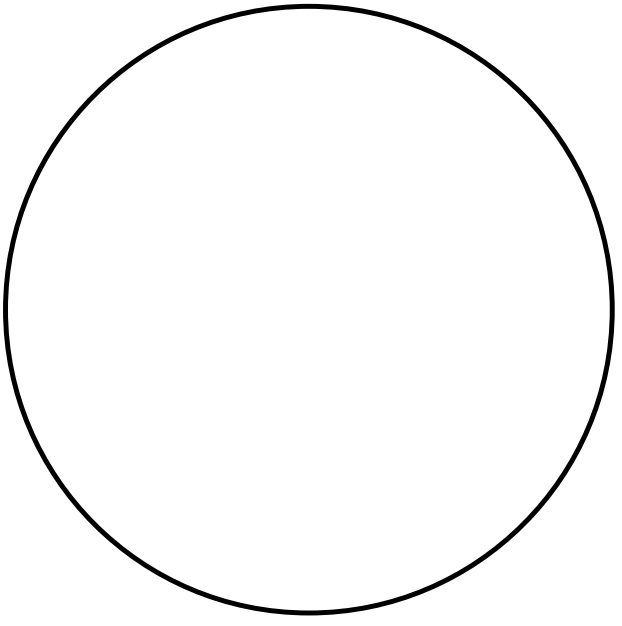
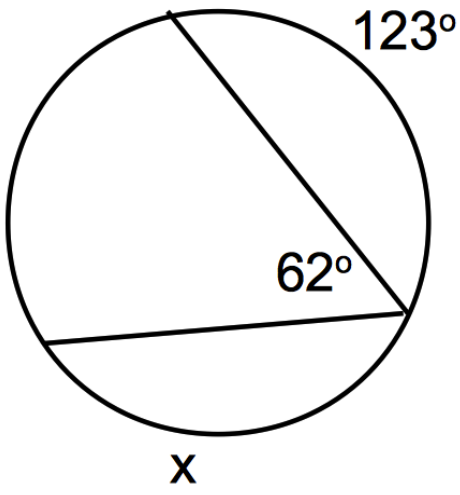
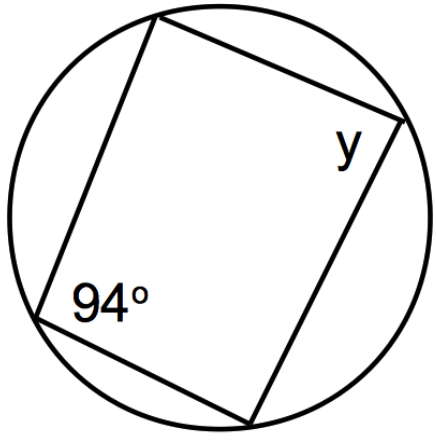
Central vs Inscribed Angles



2. In these diagrams find the value of x and y.





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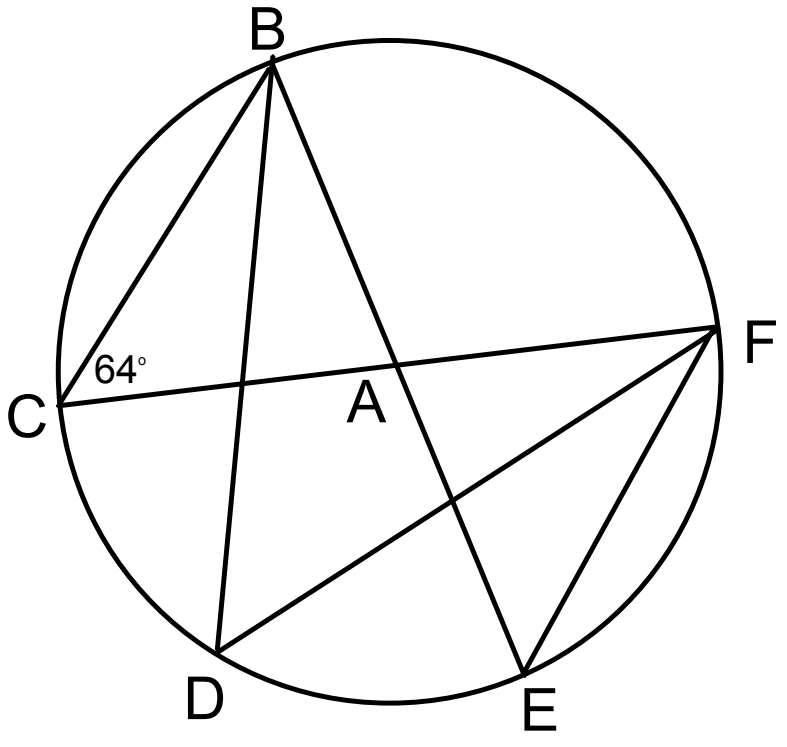
Find all the other angles



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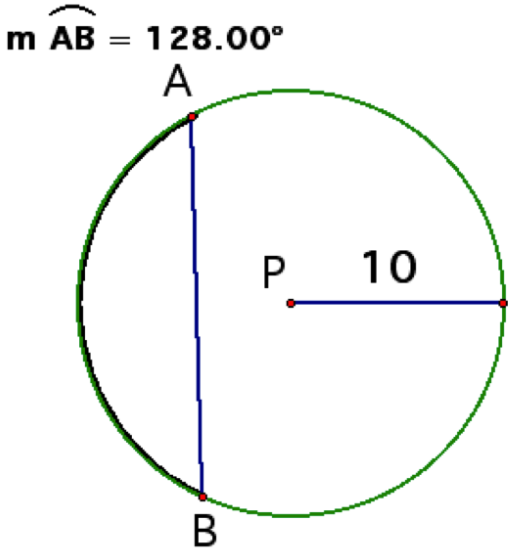
10-24 Finding the length of a chord.



Remember: draw radii where will be useful.

There are at least two ways to do this.

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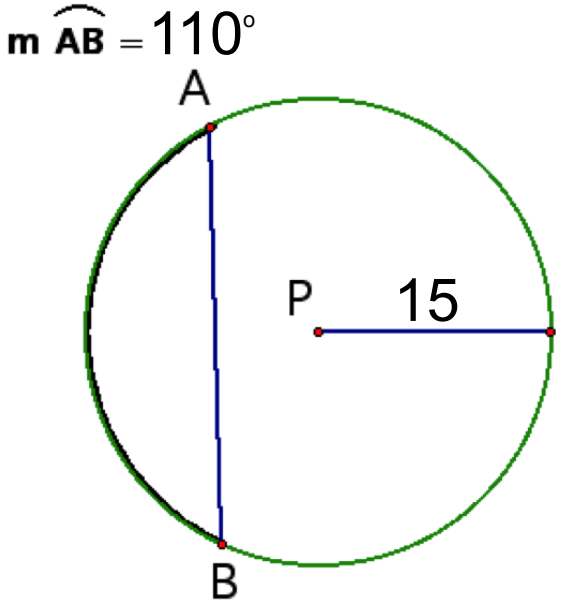
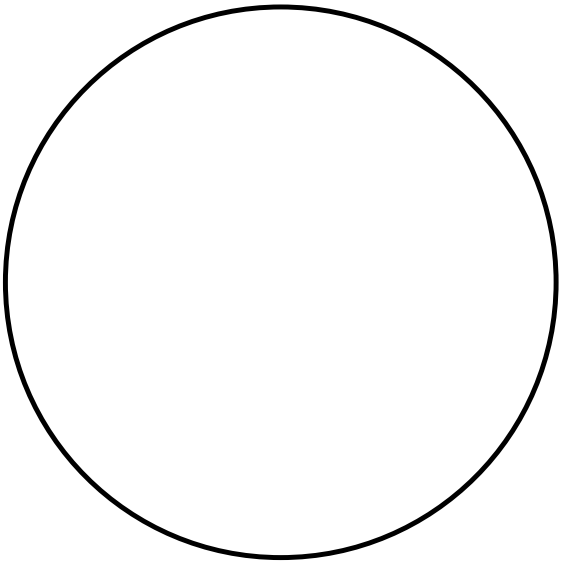
10-24 Finding the length of a chord.



Need another example?

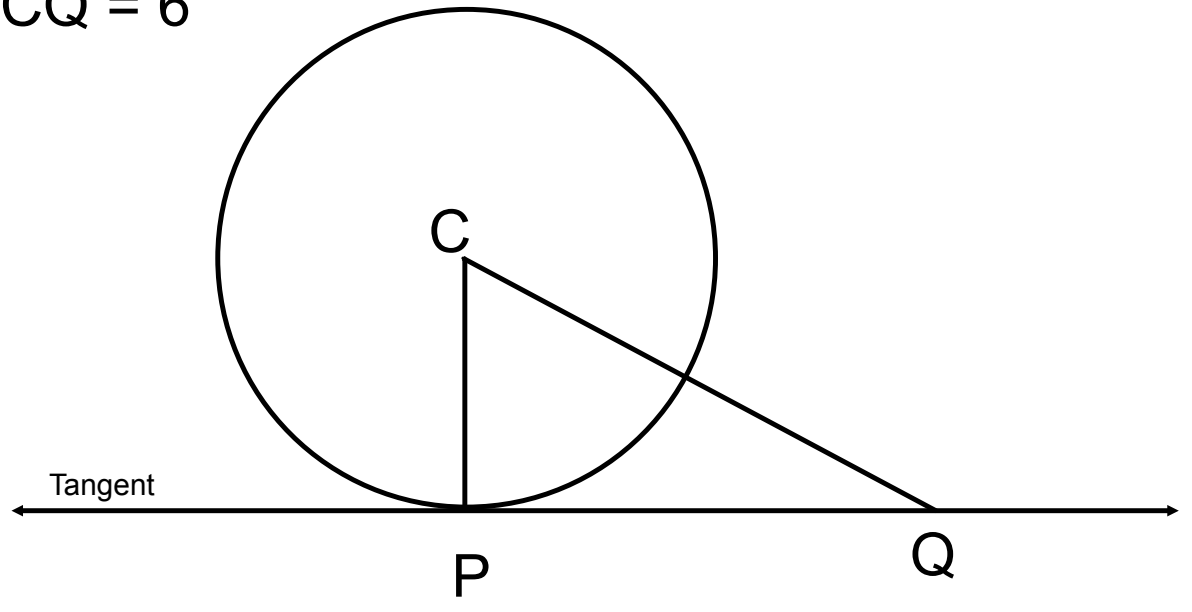
What is a tangent?



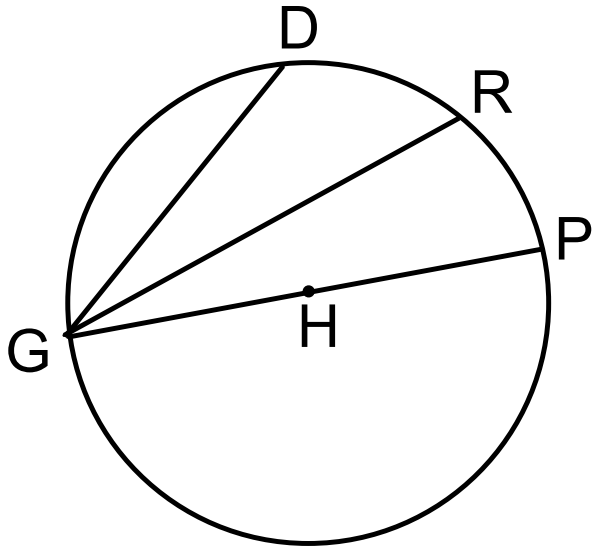
Find the missing angles and sides

$m\overline{PQ} = 7$

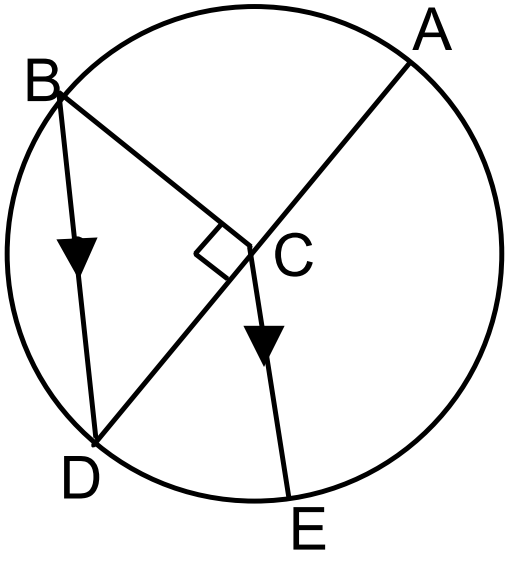
$m\overline{CQ} = 6$



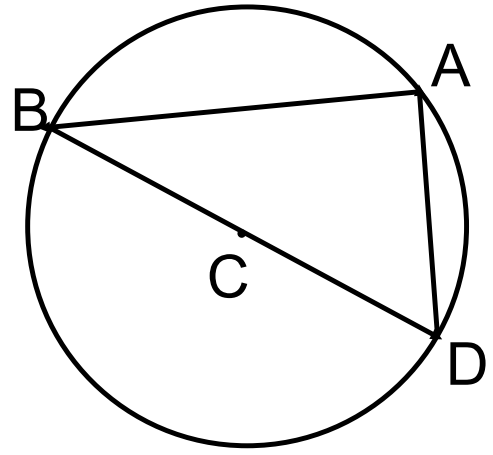
Given the $m\overset{\frown}{DR} = 40^\circ$ and $m\overset{\frown}{GPR} = 210^\circ$
find the measure of each minor arc.



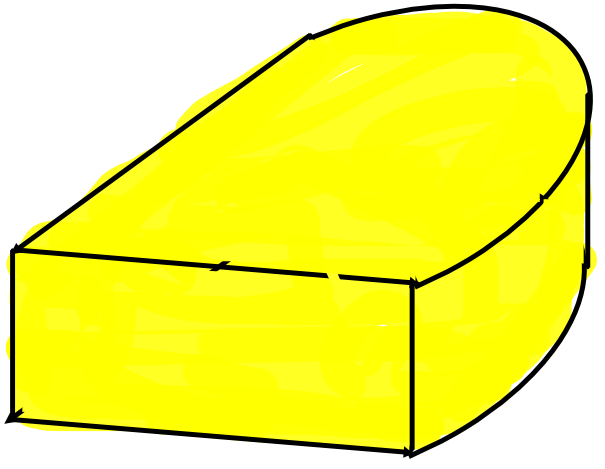
Find $m\overset{\frown}{DE}$



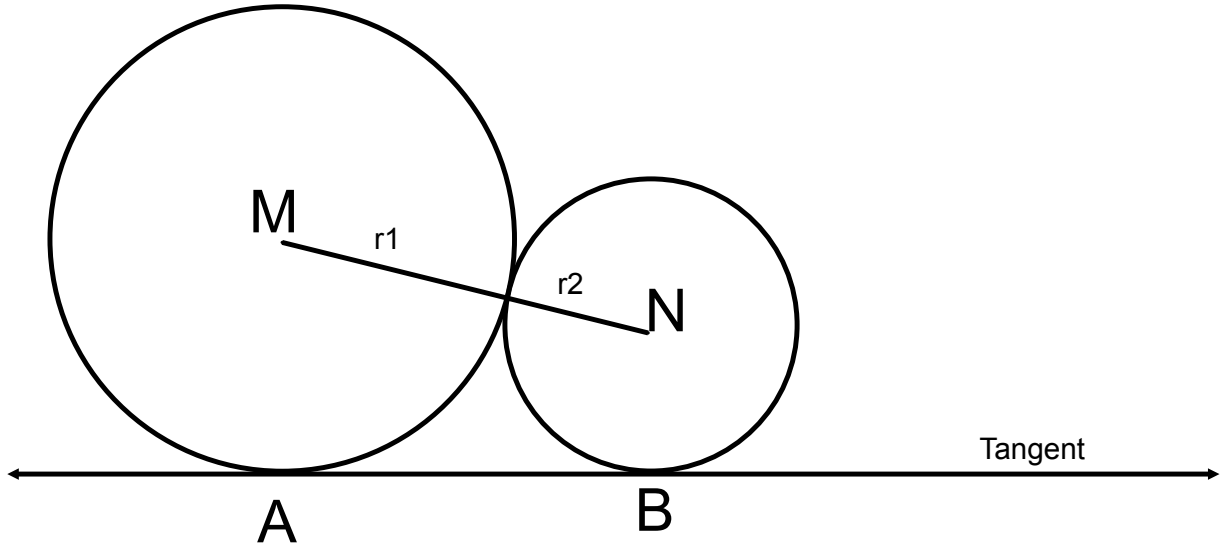
If the area of this circle is 289π in^2 and $m\overline{AD} = 10$ in, find $m\overline{AB}$ and $m\overset{\frown}{AB}$.



A quarter of a wheel of cheese is left over. The cheese is 2 inches tall and had a diameter of 6 inches. What volume of cheese remains?



If two wheels are touching each other, find the distance $\overline{AB}$, if r1 = 18cm and r2 = 8cm



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We have covered circle angles, chords, tangents, and some circle problems.

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Next time equations of circles.

Fin

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