

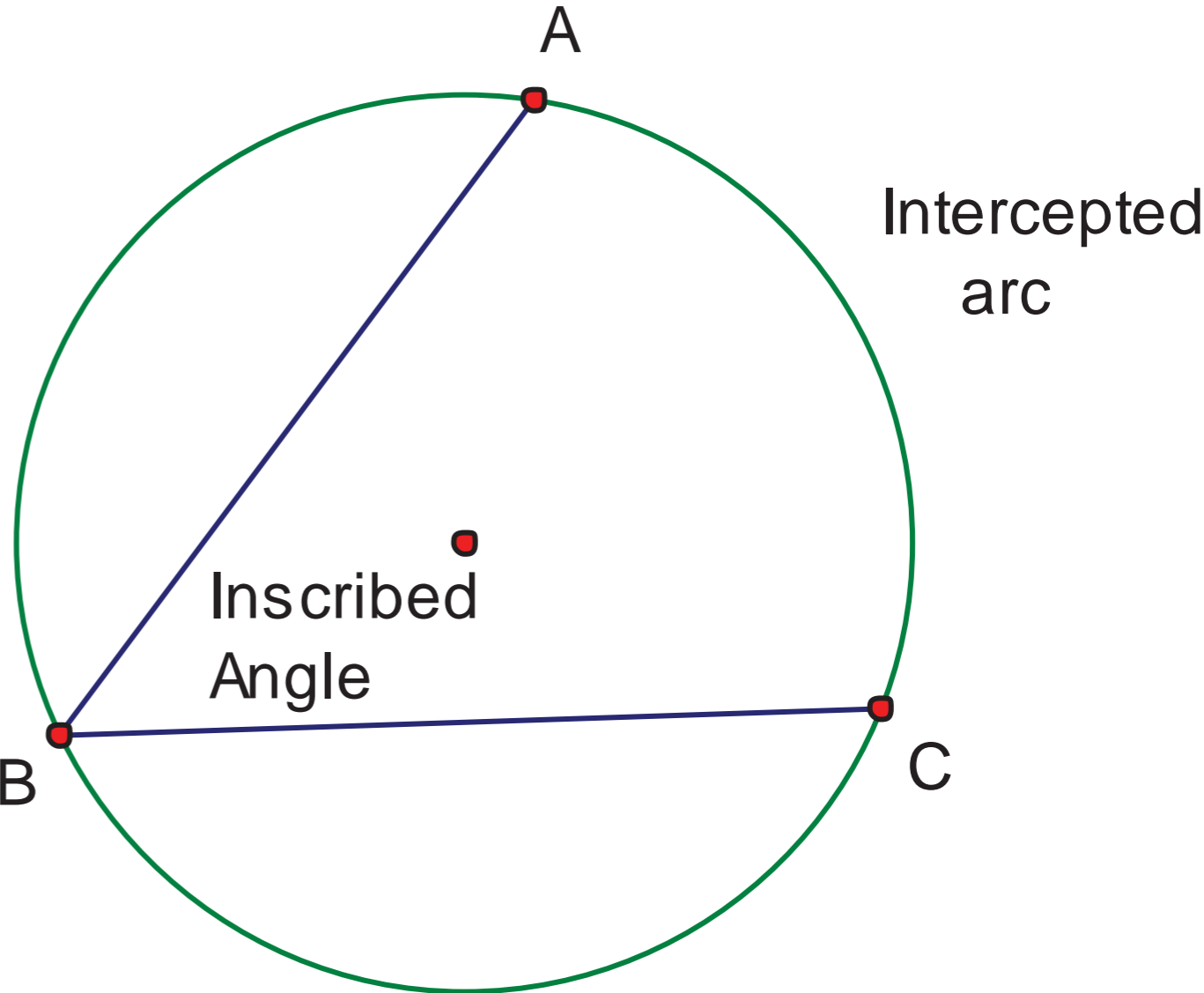
Unit 12-4 Inscribed Angles

Standard 12g: Find the measure of an inscribed angle.

Standard 12h: Use inscribed angles and their properties to solve problems.

Inscribed Angle Theorem:

If an angle is inscribed in a circle, then its measure is half the measure of its intercepted arc.



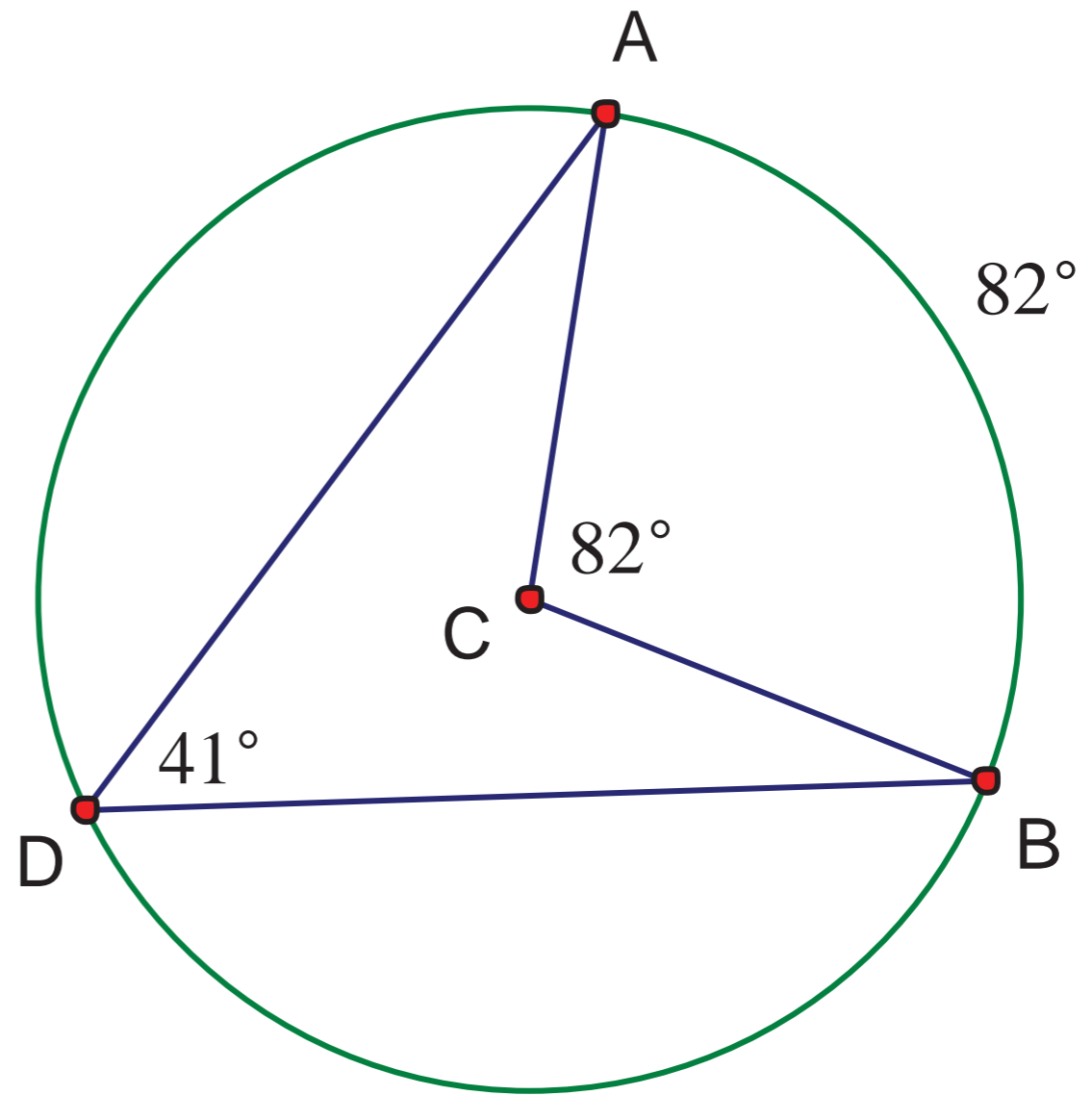
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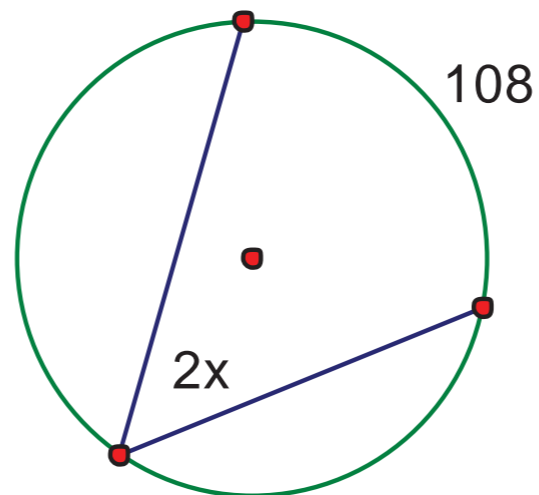
Remember that the measure of the arc and the central angle are equal

So if $m\angle ADB = 41^\circ$

then $m\widehat{AB} = 82^\circ$



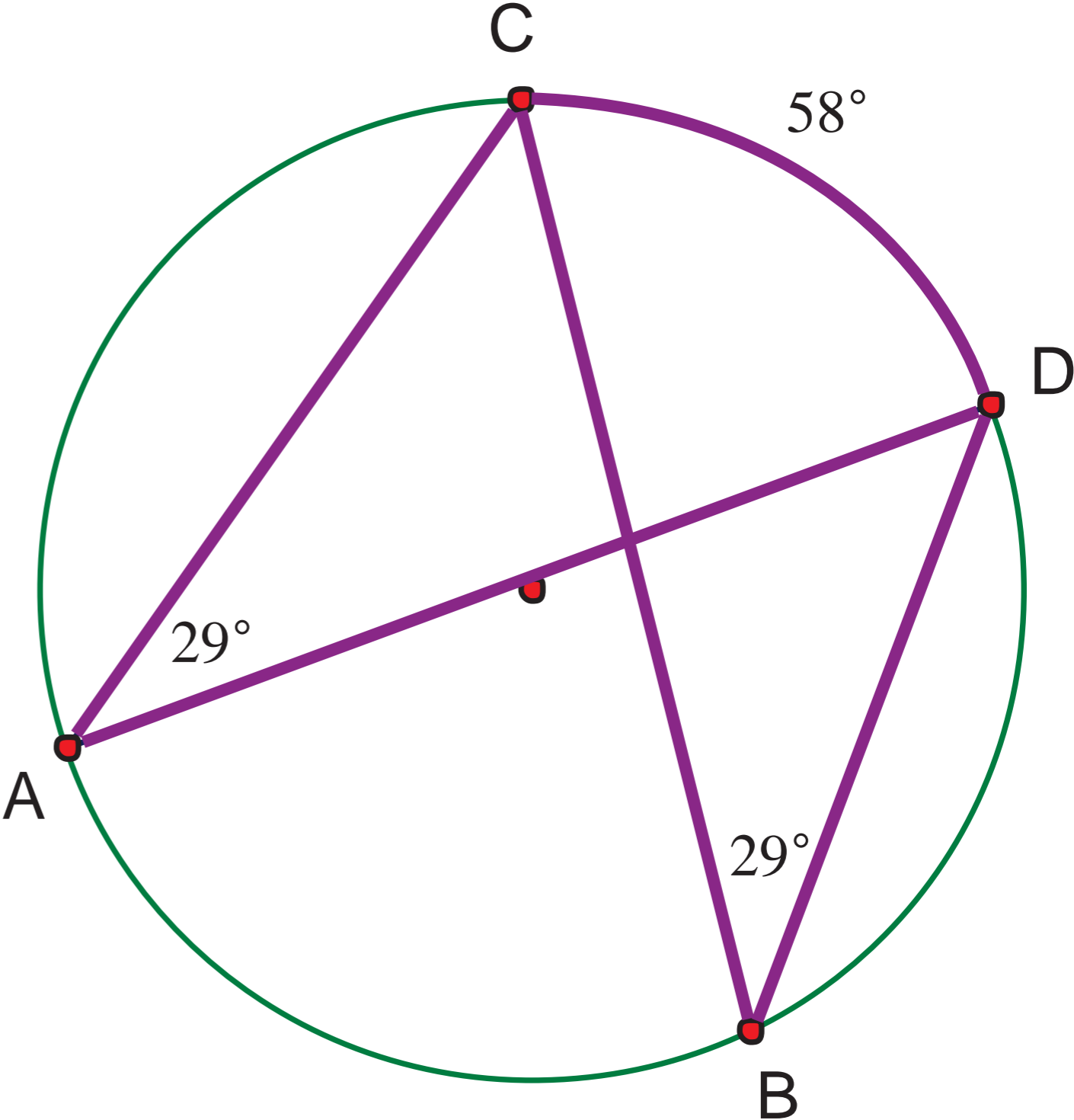
EX 1) Find the value of x .



If two inscribed angles in a circle intercept the same arc, then the angles are congruent.

$\angle A \cong \angle B$ because both inscribed angles intercept \widehat{CD} .

$\angle C \cong \angle D$ because both inscribed angles intercept \widehat{AB} .



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