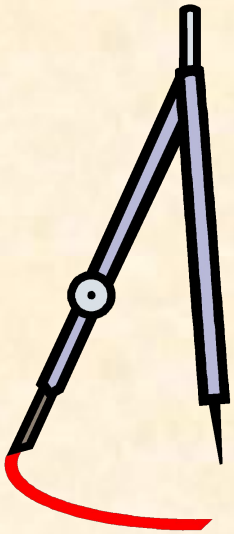
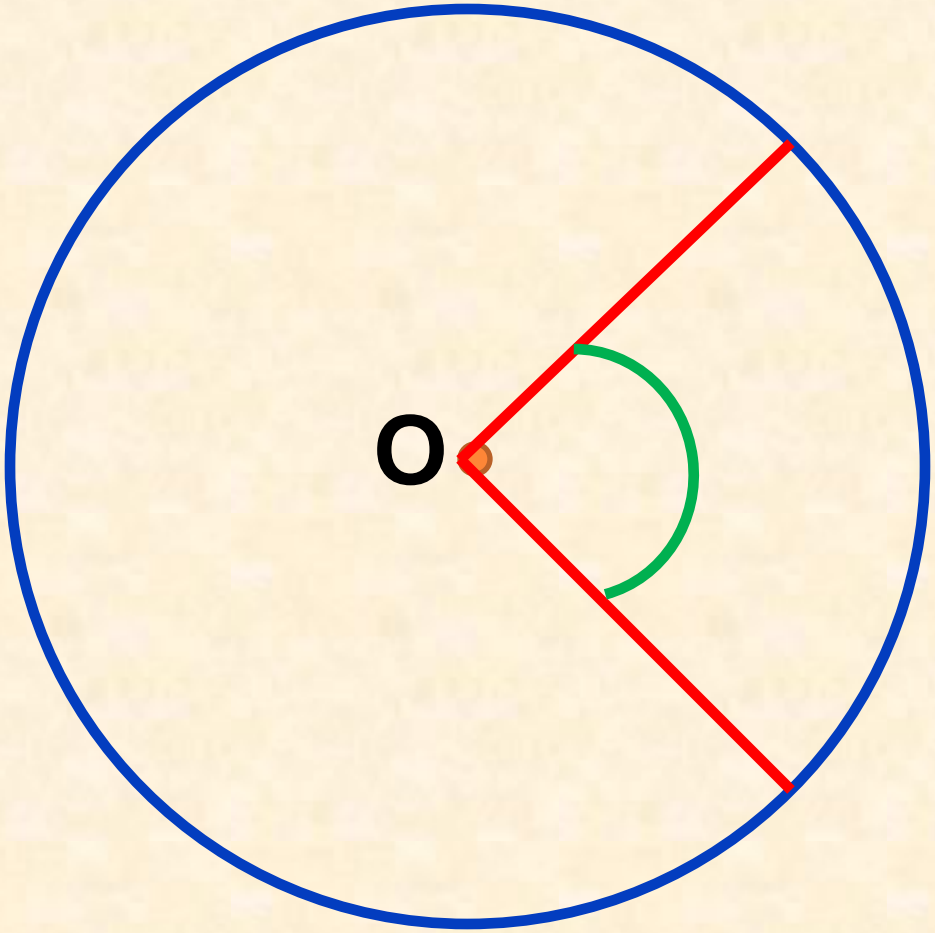
Центральные углы и углы, вписанные в окружность



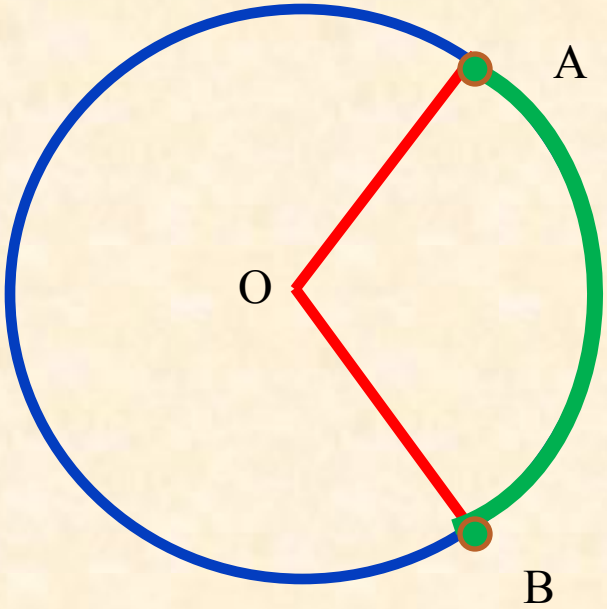
Центральный угол

Это угол с вершиной в центре окружности.



Дуга окружности, соответствующая центральному углу

Это часть окружности, расположенная внутри угла



$\smile AB$

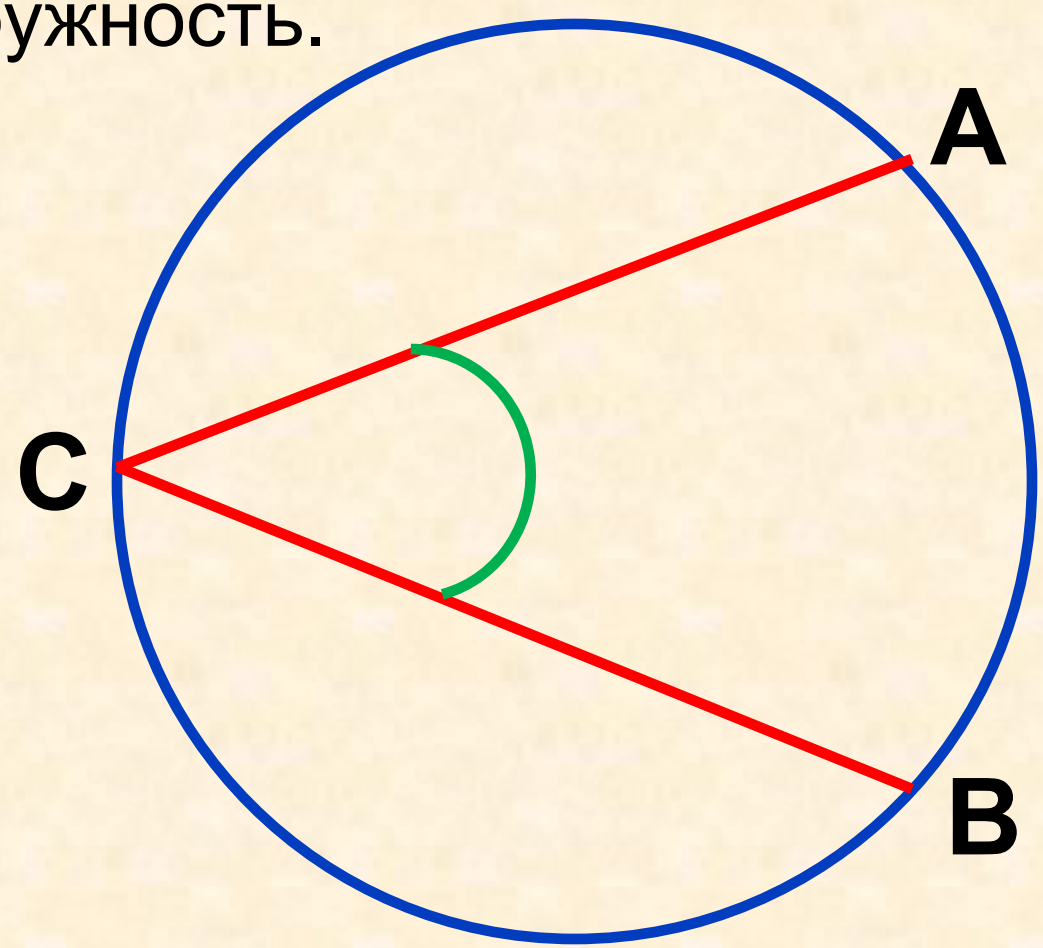
Градусная мера дуги окружности

Это градусная мера соответствующего центрального угла.

$\smile AB = \angle AOB$

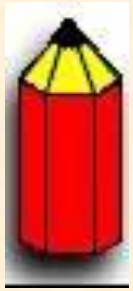
Вписанный угол

Это угол, вершина которого лежит на окружности, а стороны пересекают окружность.

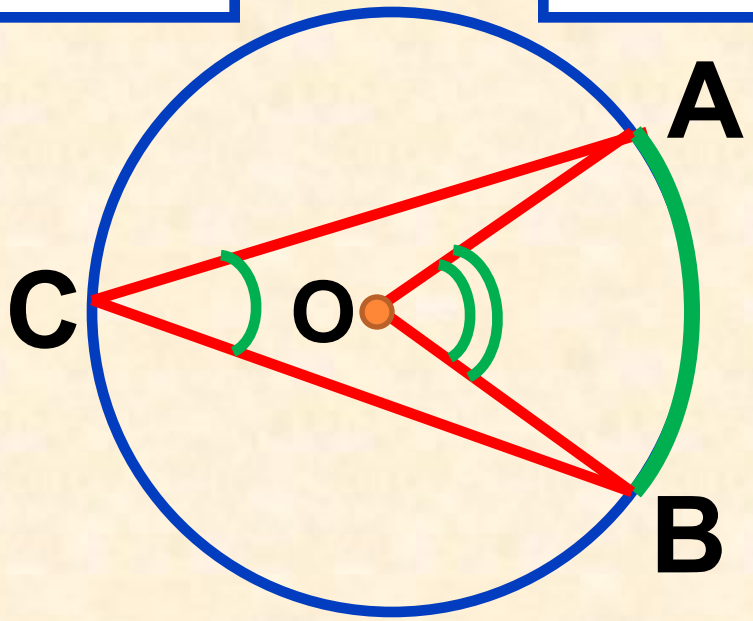


Теорема о вписанном угле

Угол, вписанный в окружность, равен половине соответствующего ему центрального угла.



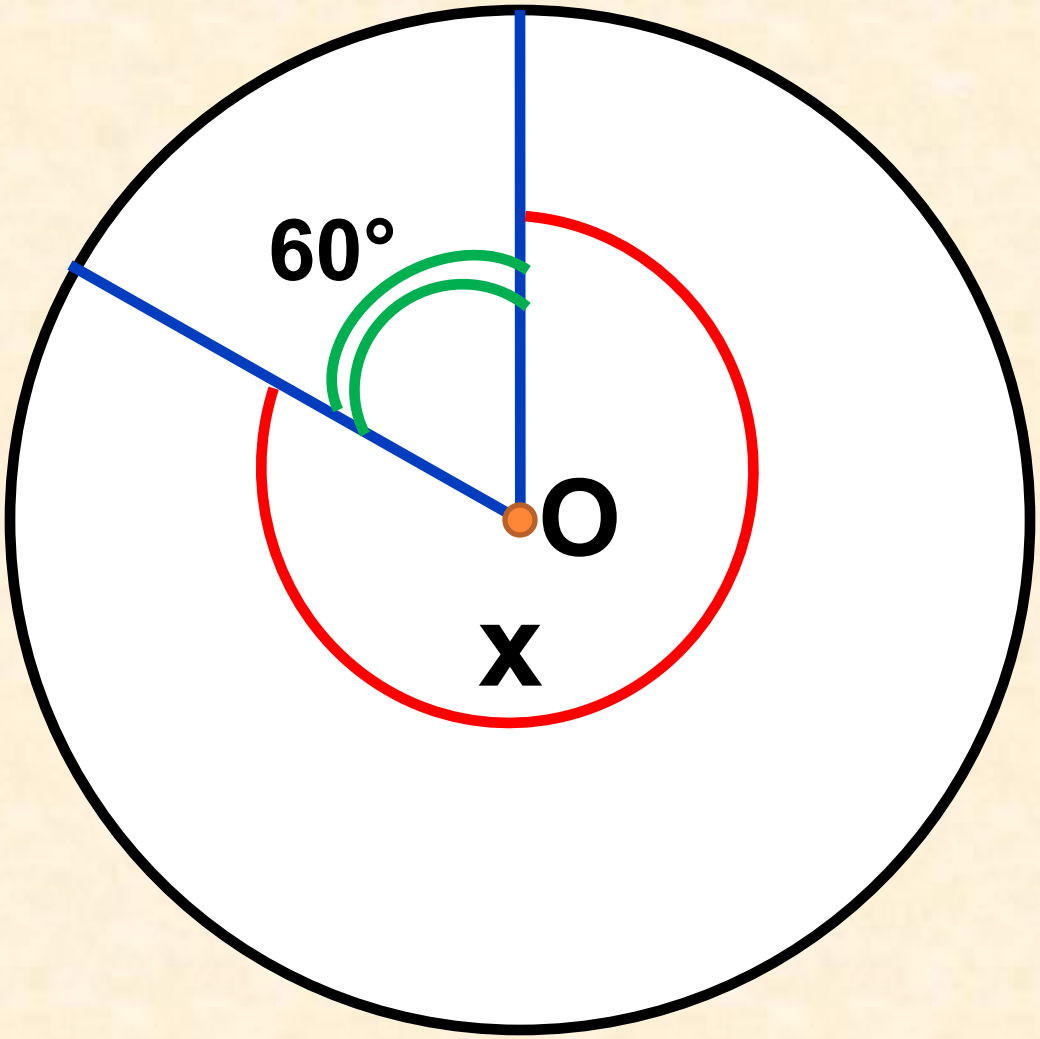
Угол, вписанный в окружность, равен половине дуги, на которую он опирается.



Решение упражнений

Найдите *X*

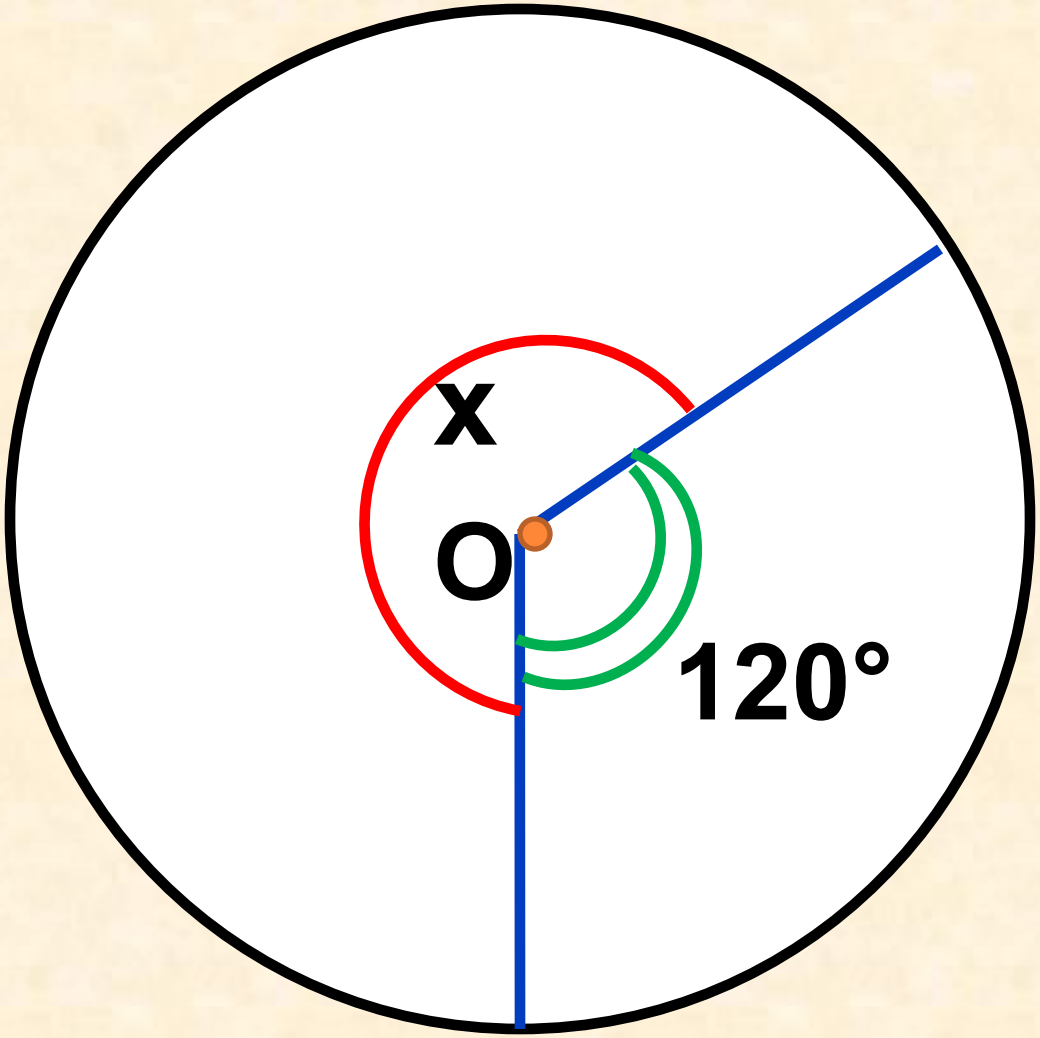
№1



300°

Найдите *X*

№2



240°

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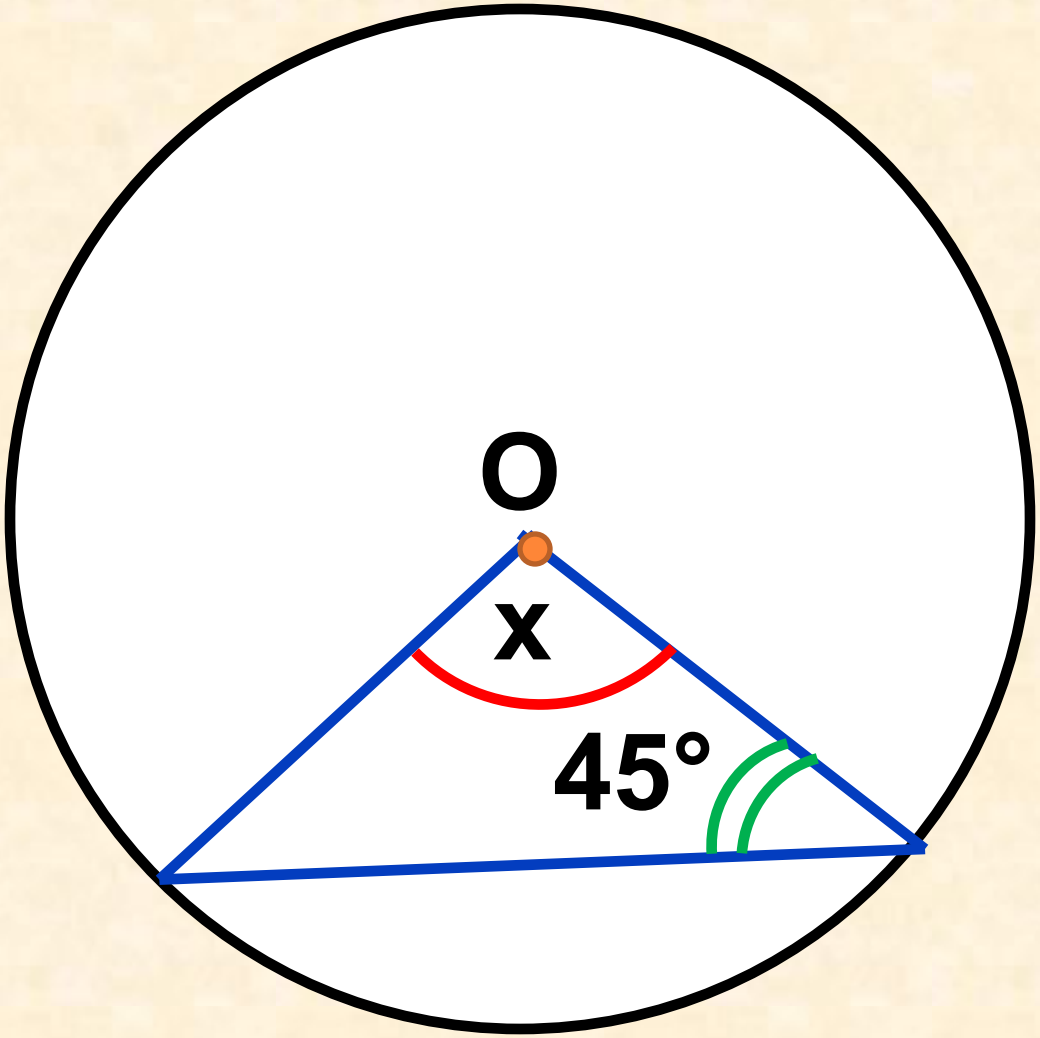
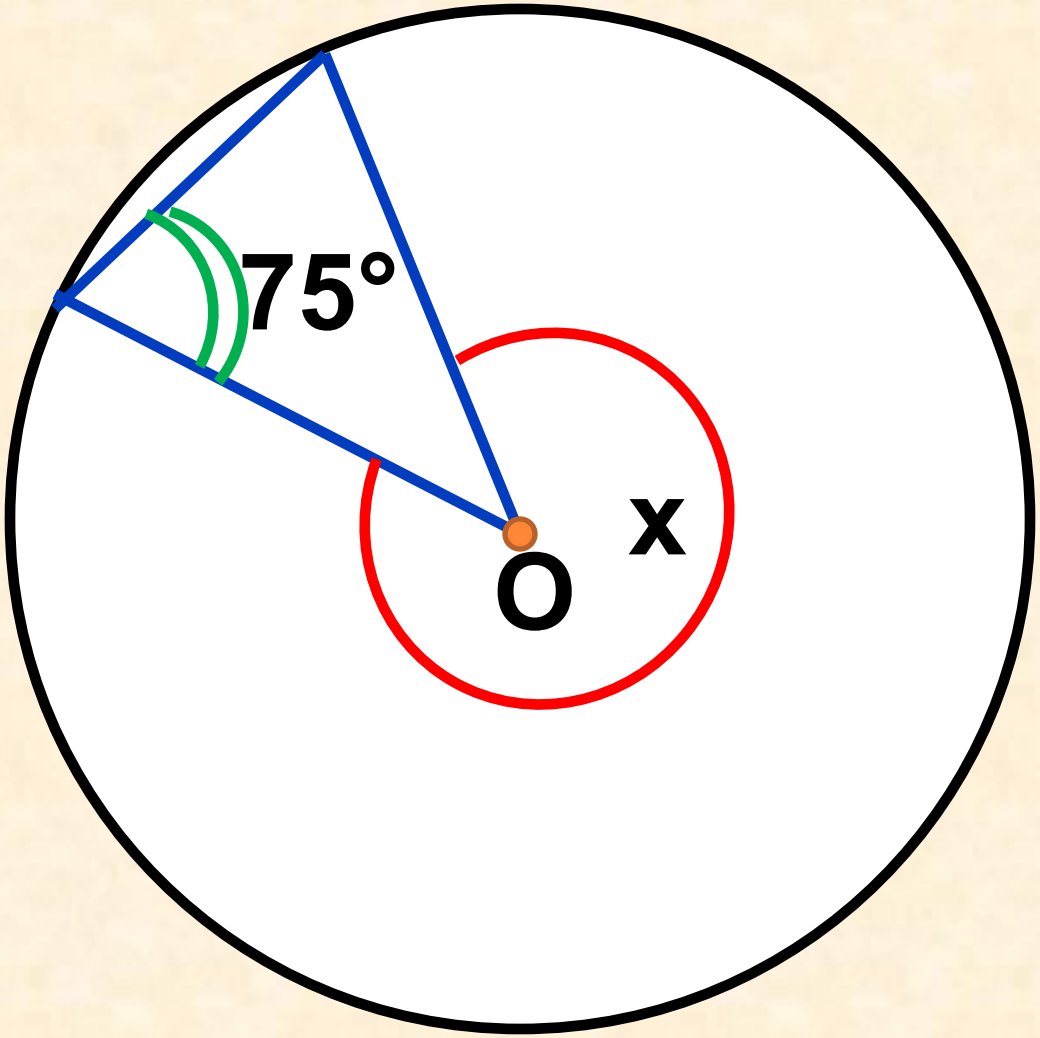
№3



90°

Найдите *X*

№4



330°

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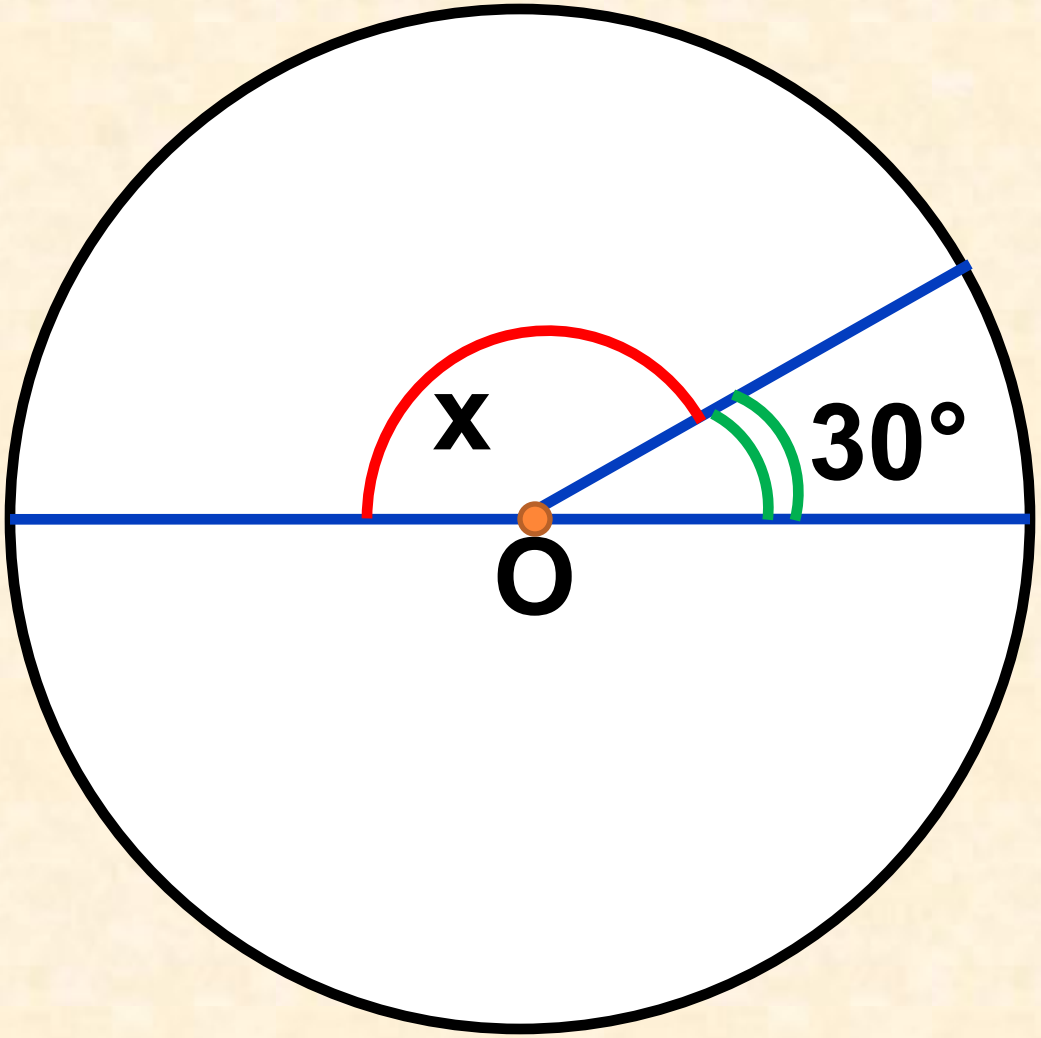
№5



150°

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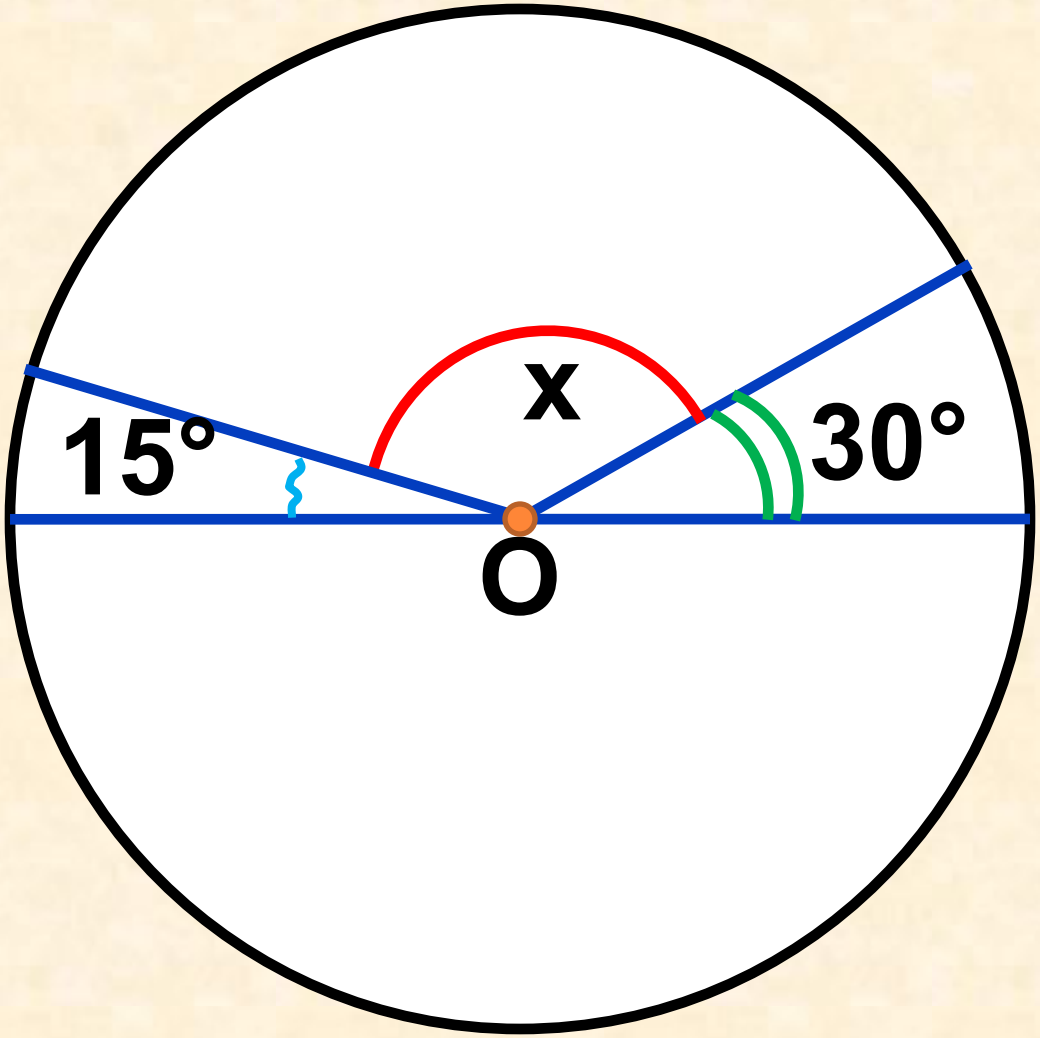
№6



135°

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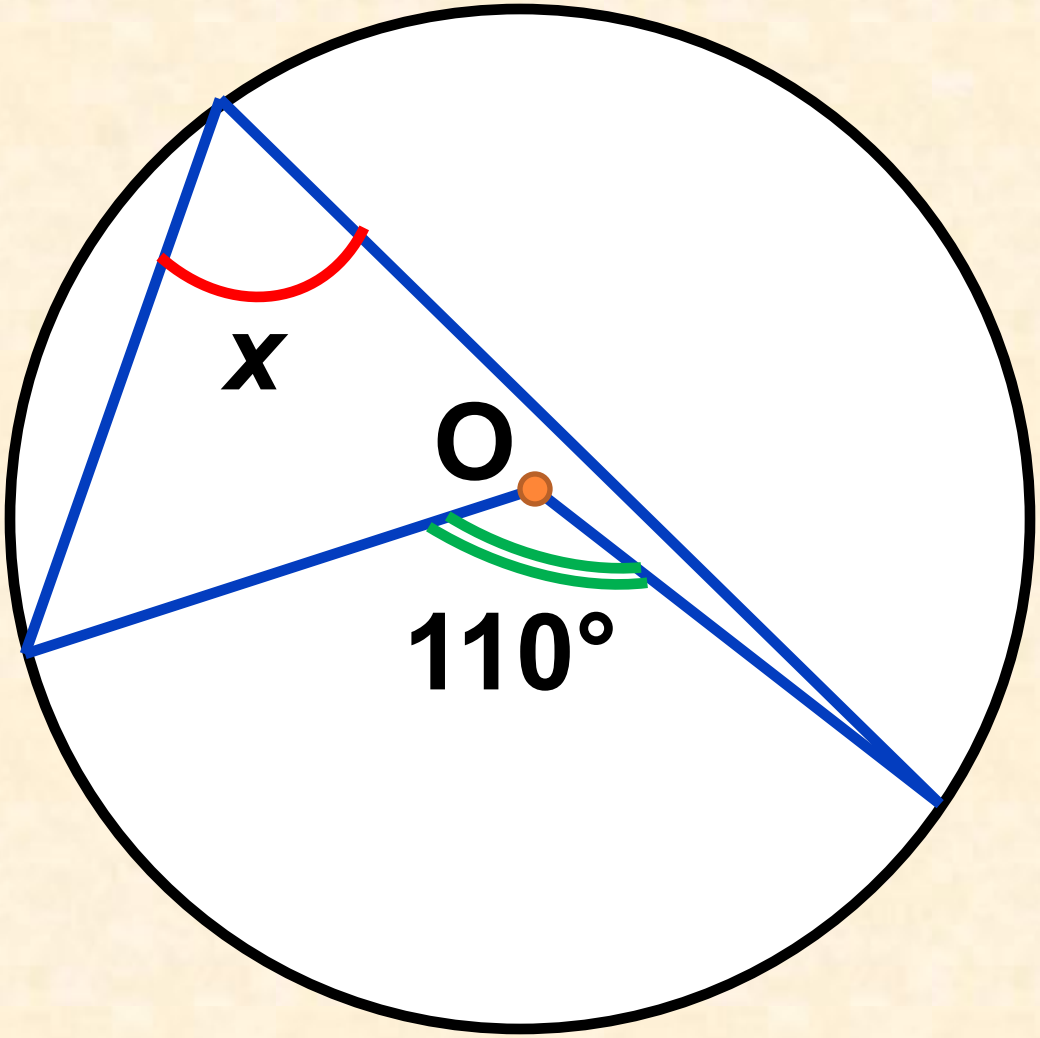
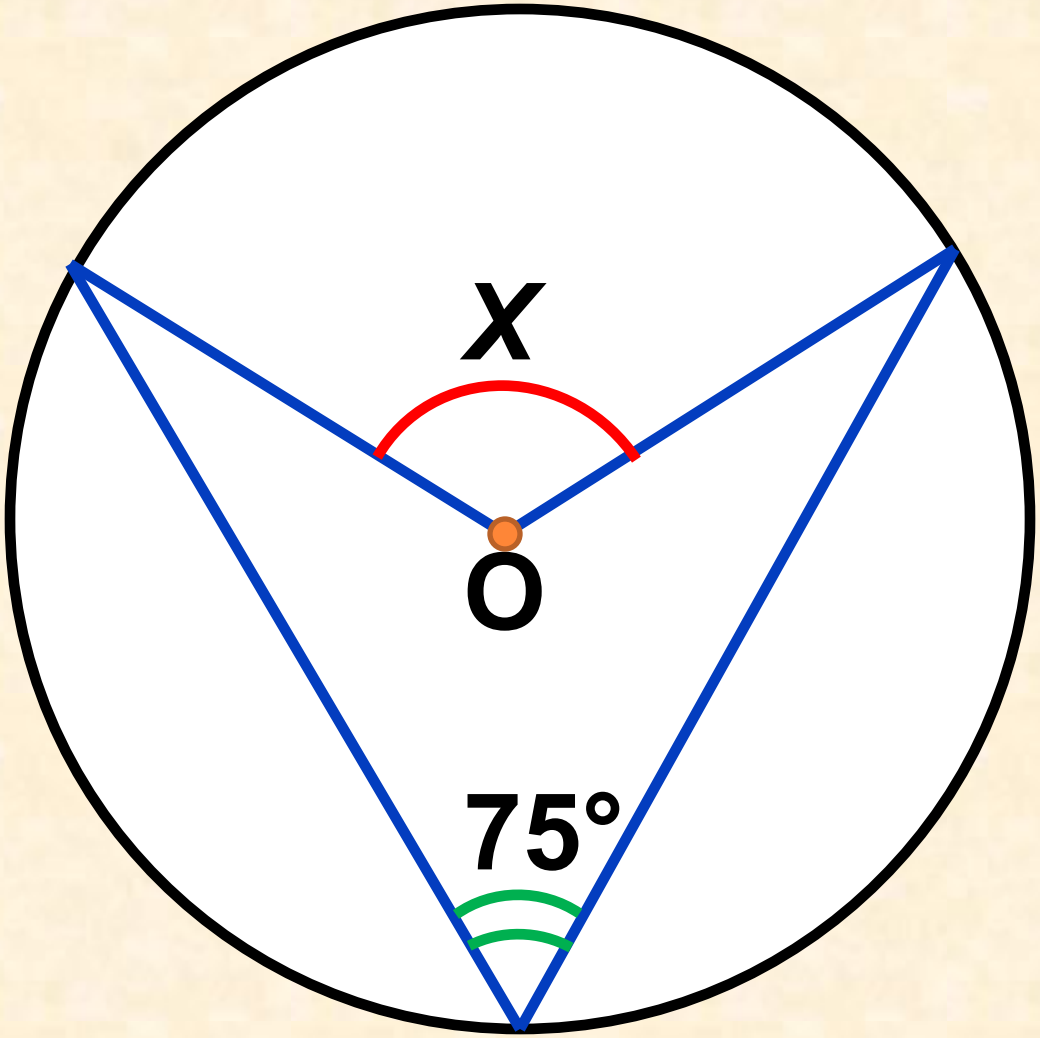
№7



55°

Найдите *X*

№8



150°

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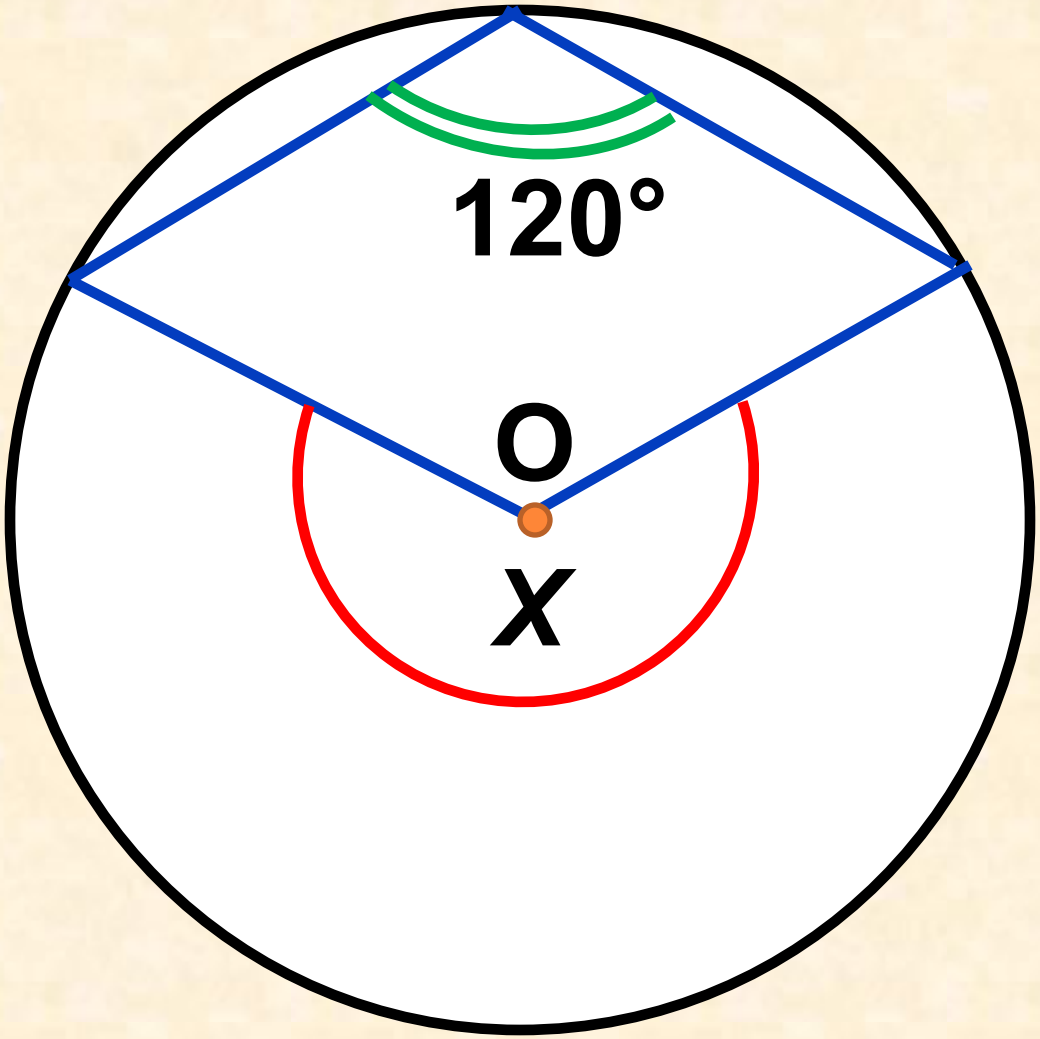

240°

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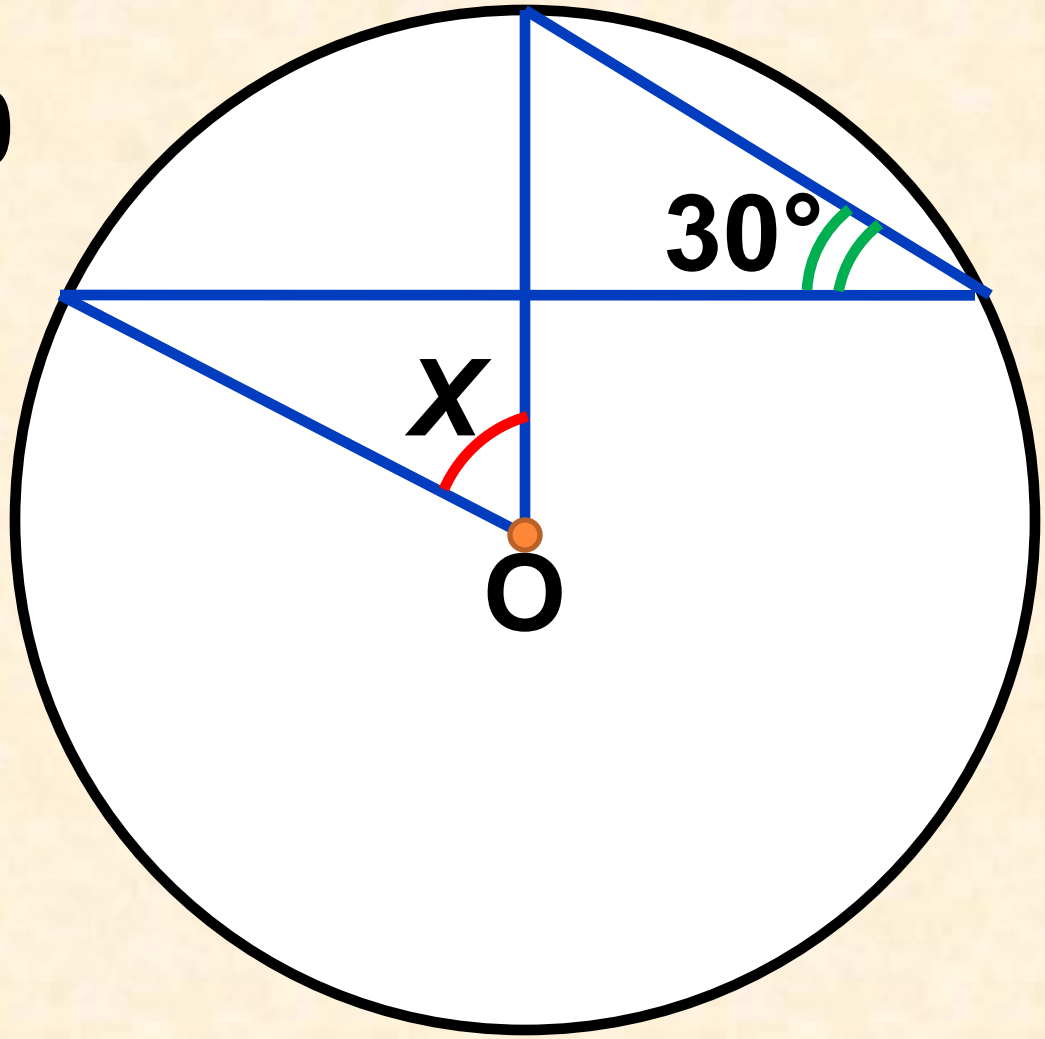
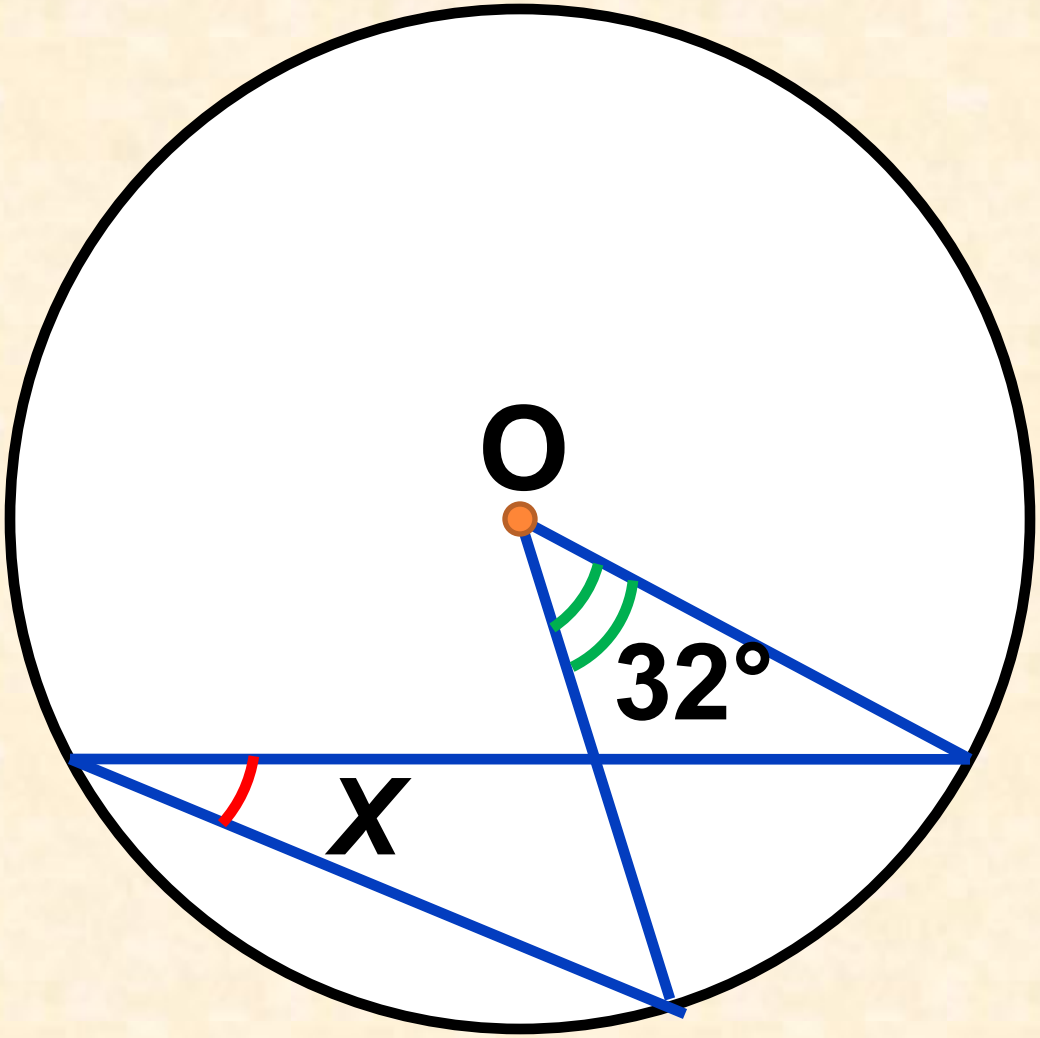


60°

Найдите *X*

№11



16°

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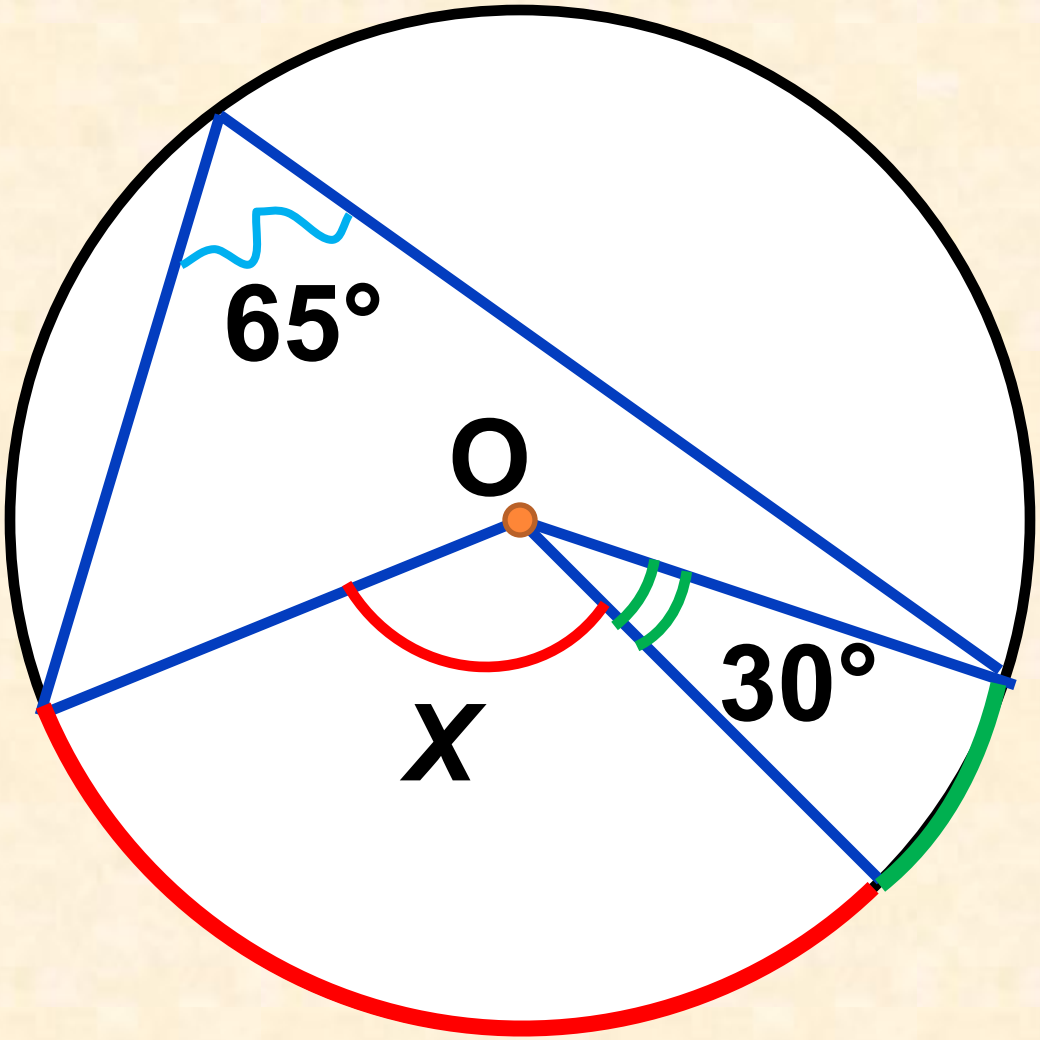

100°

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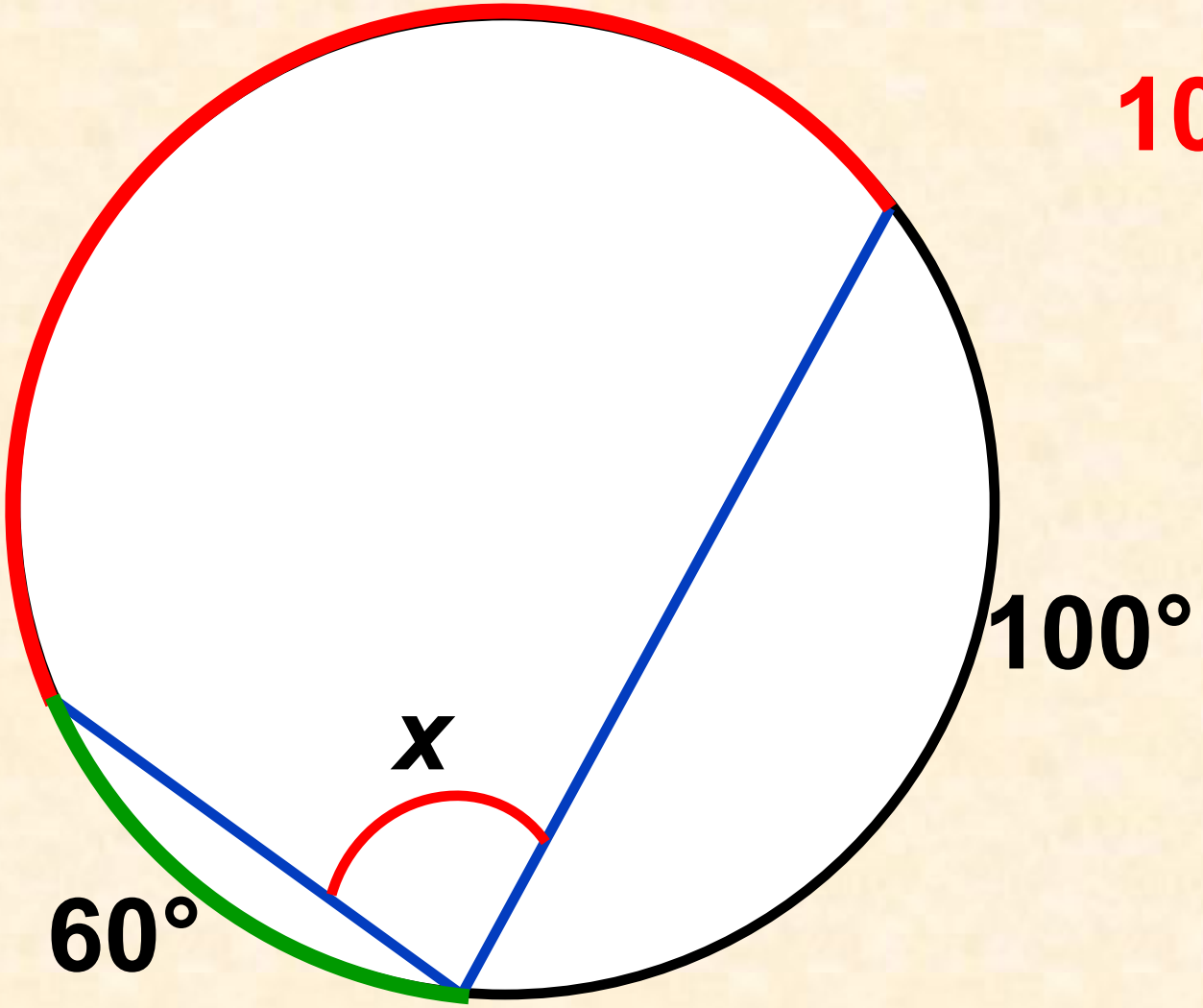

Найдите *X*

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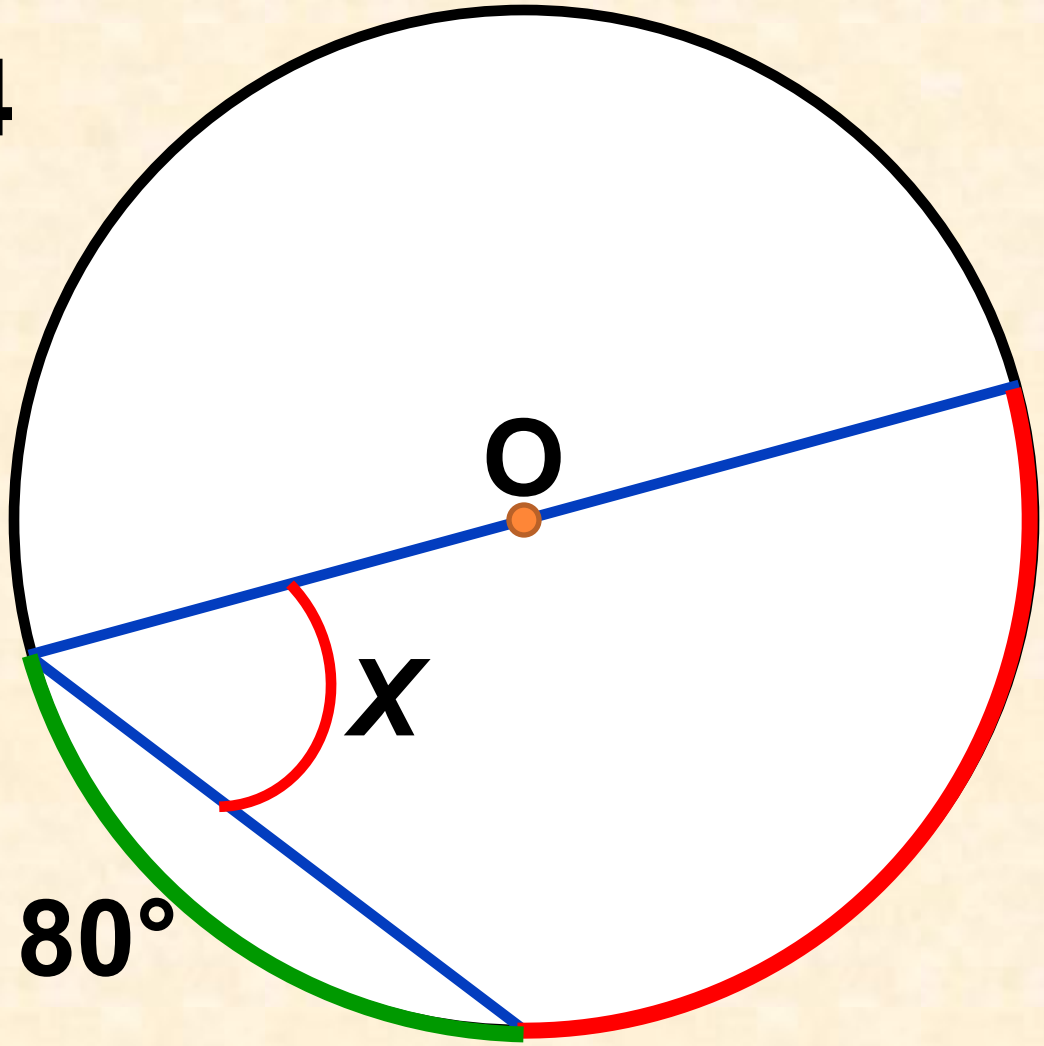
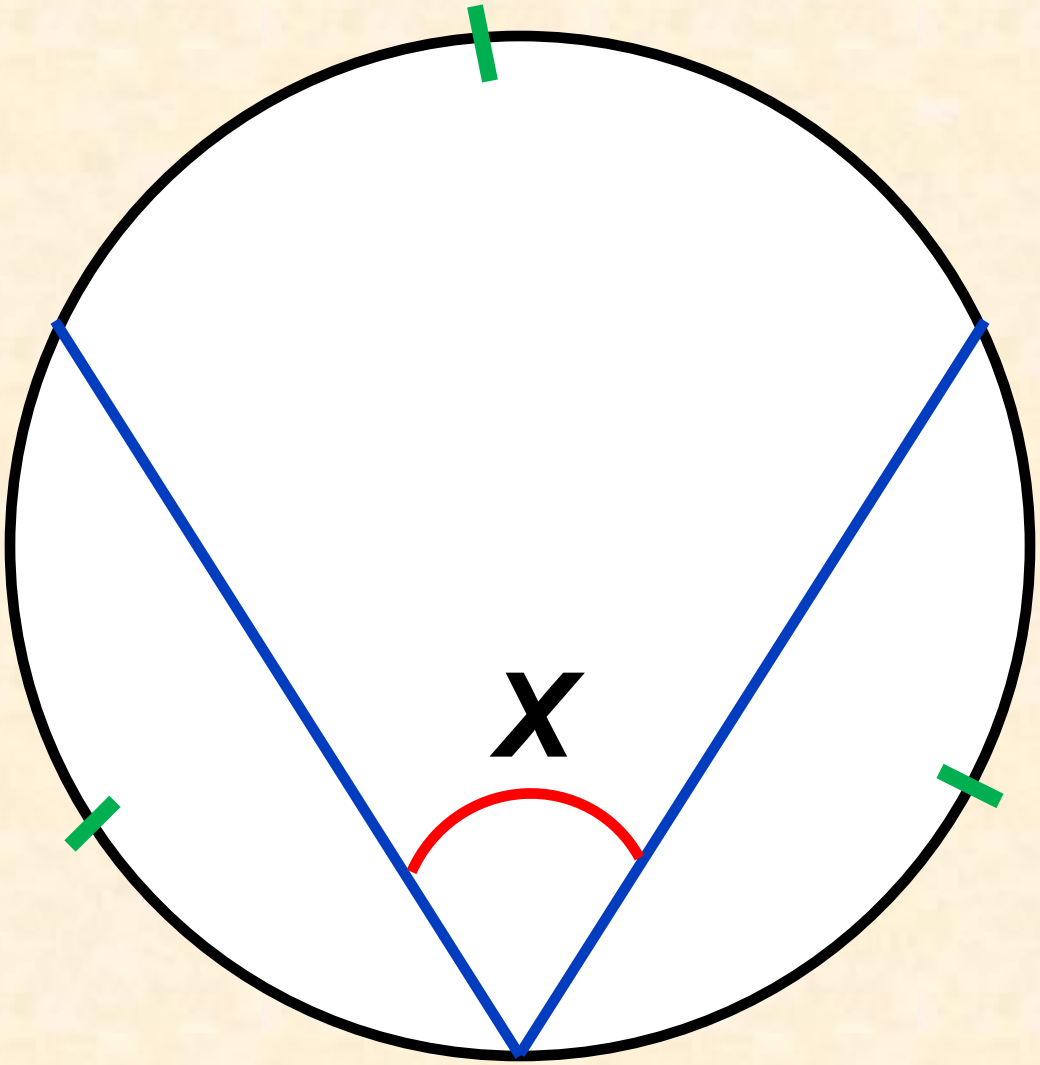


50°

Найдите *X*

№15



60°

Найдите *X*

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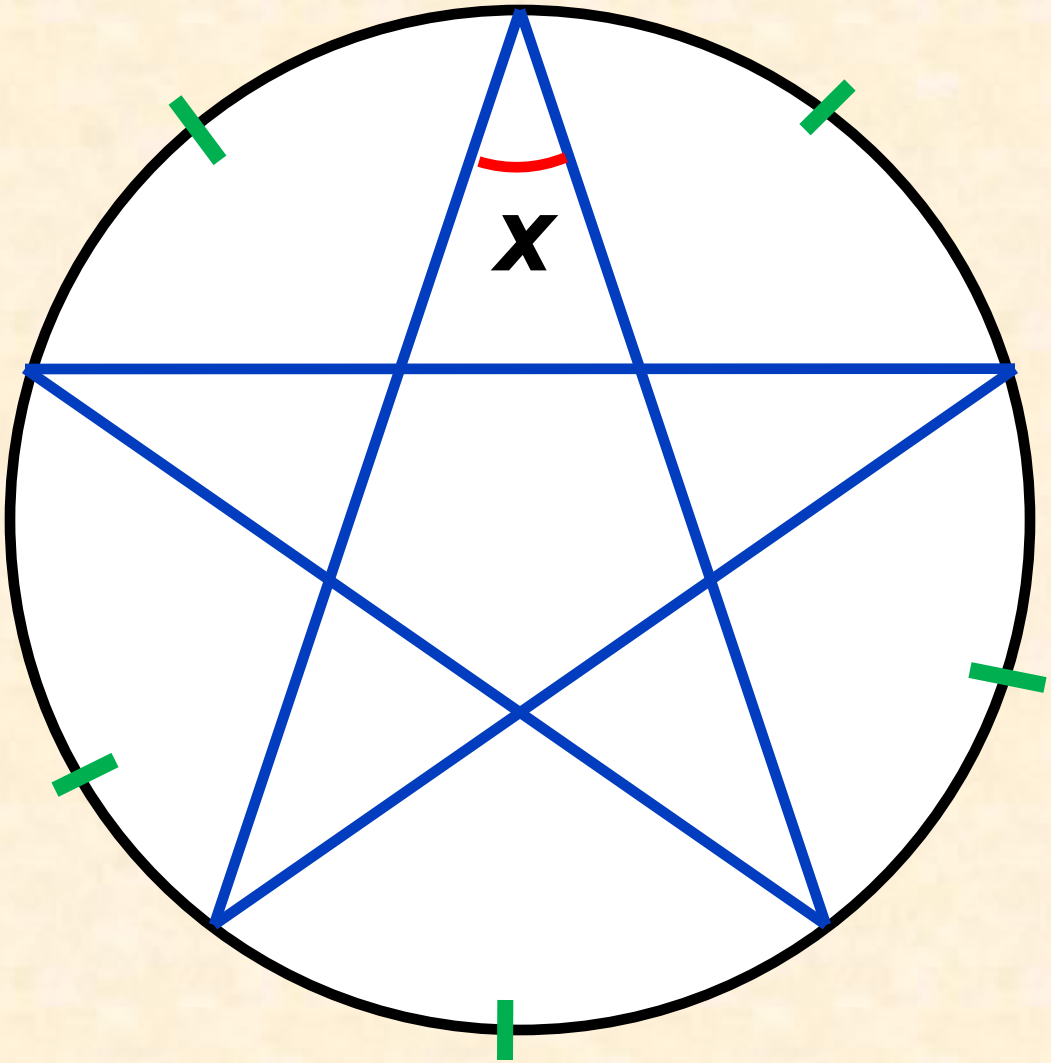

36°

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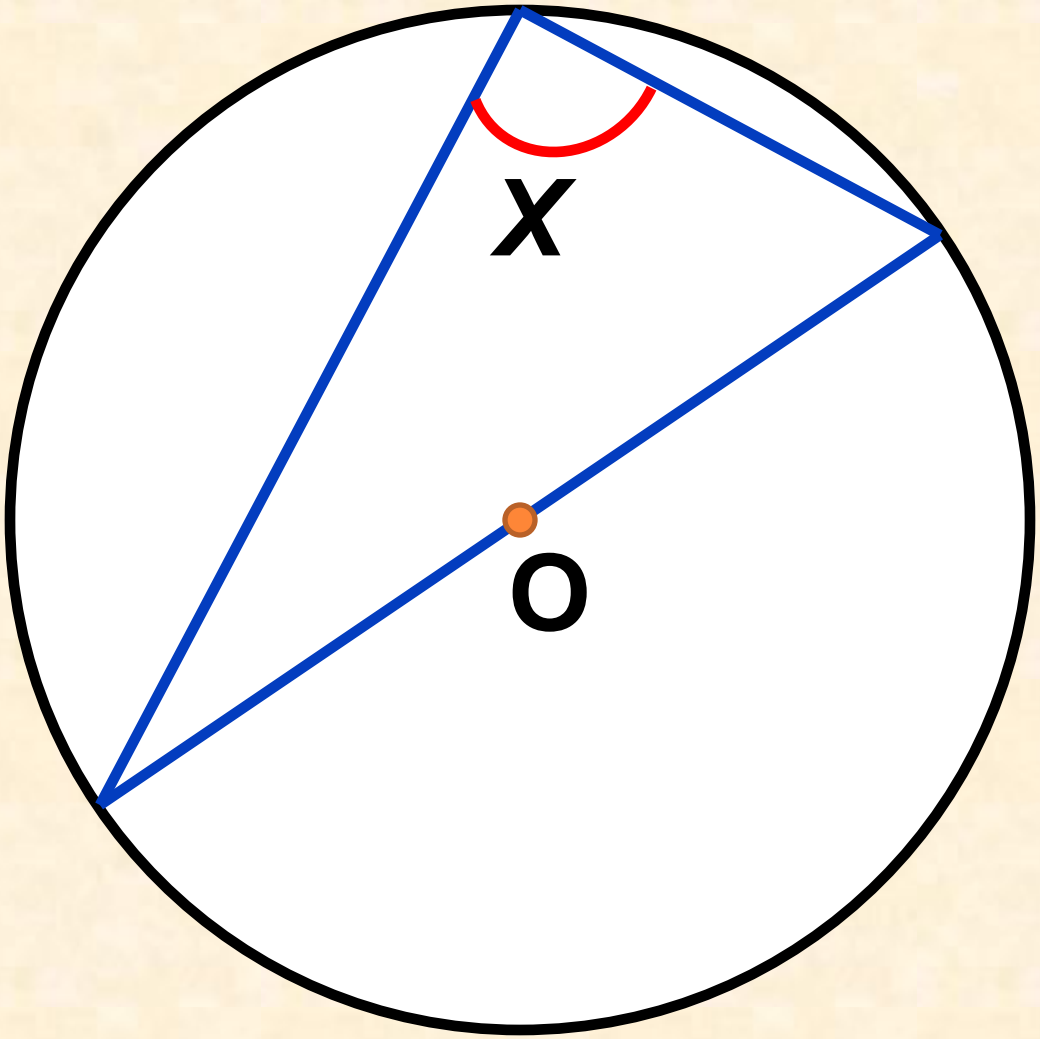

90°

Найдите *X*

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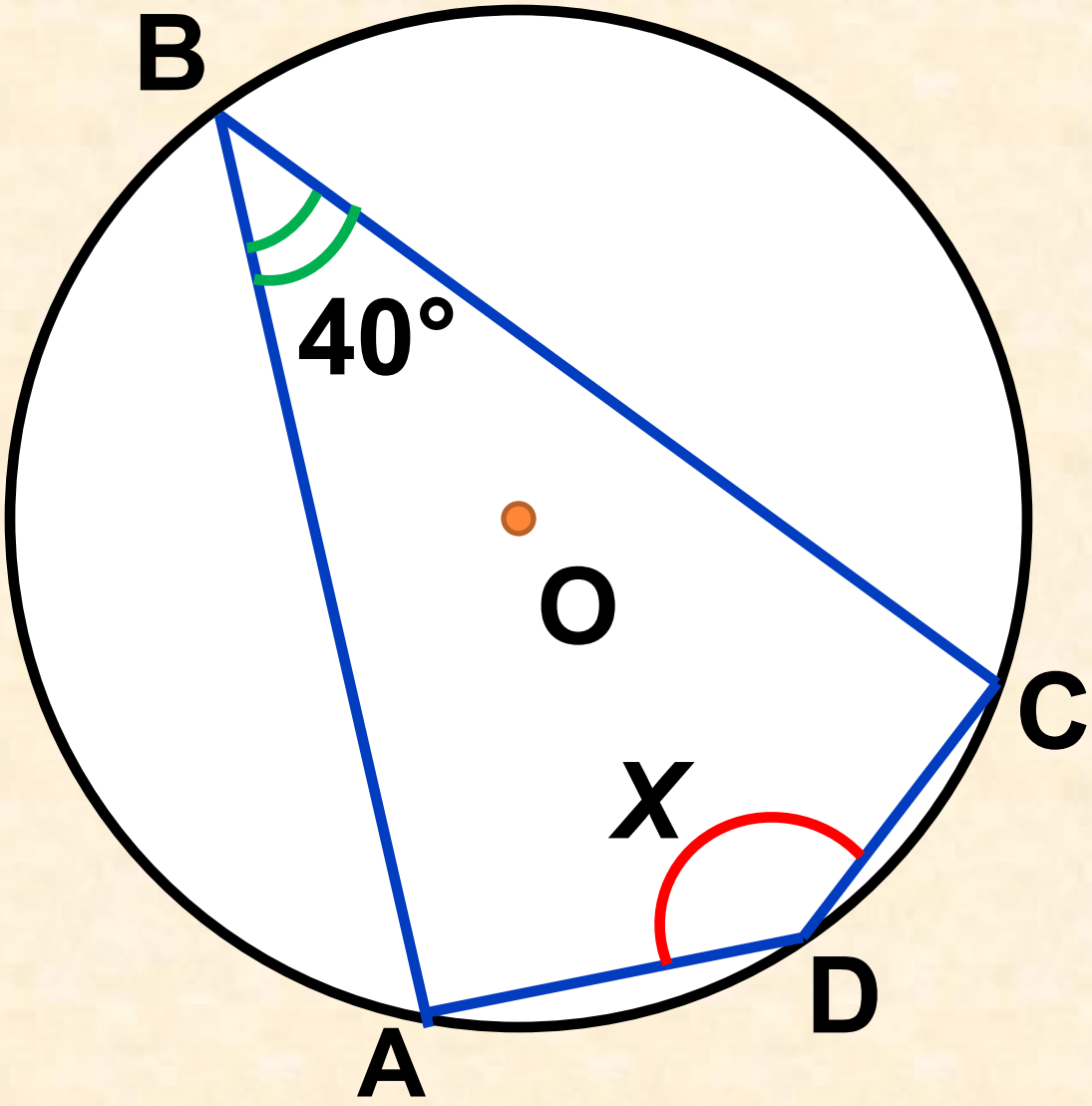

140°

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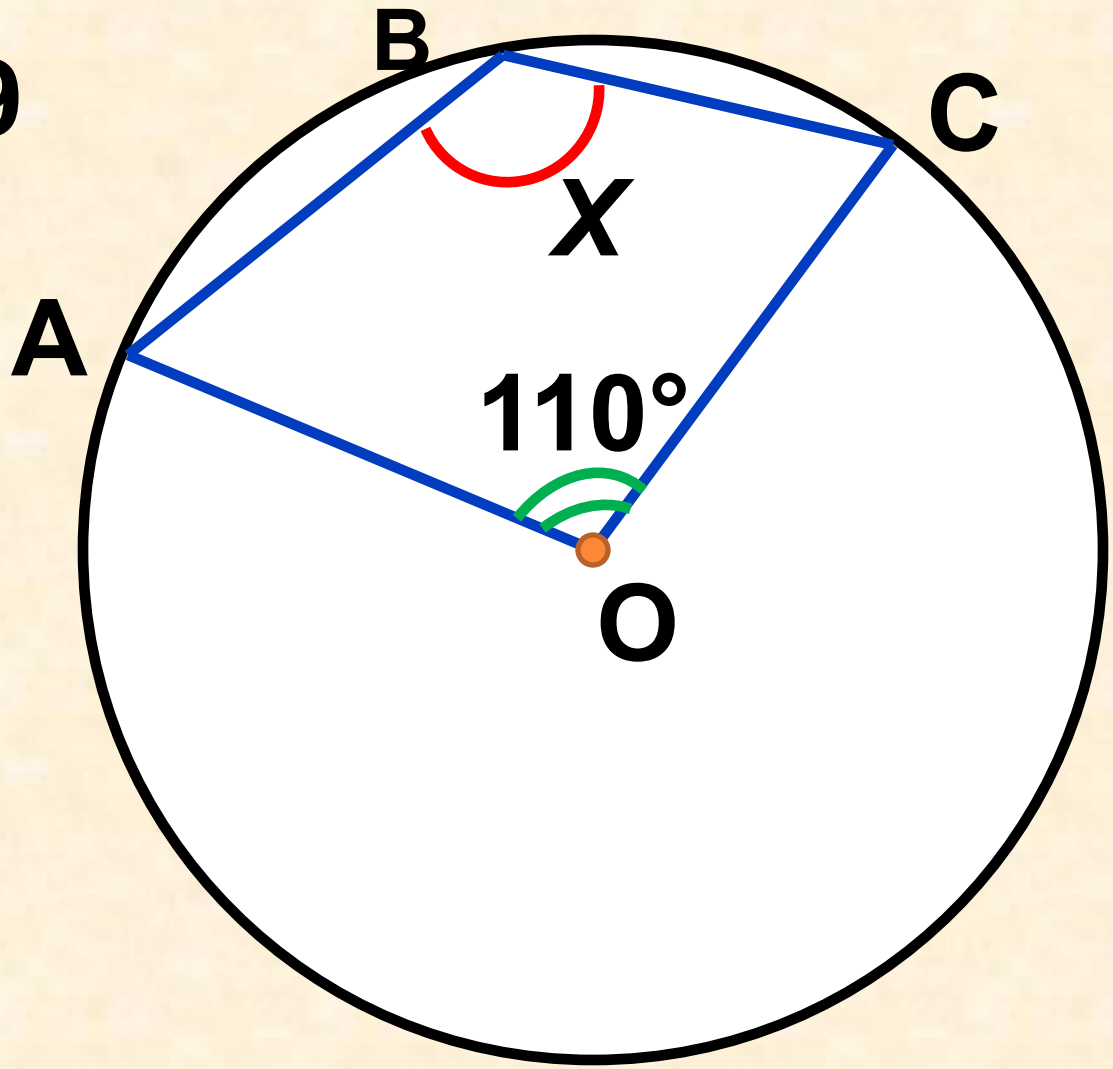
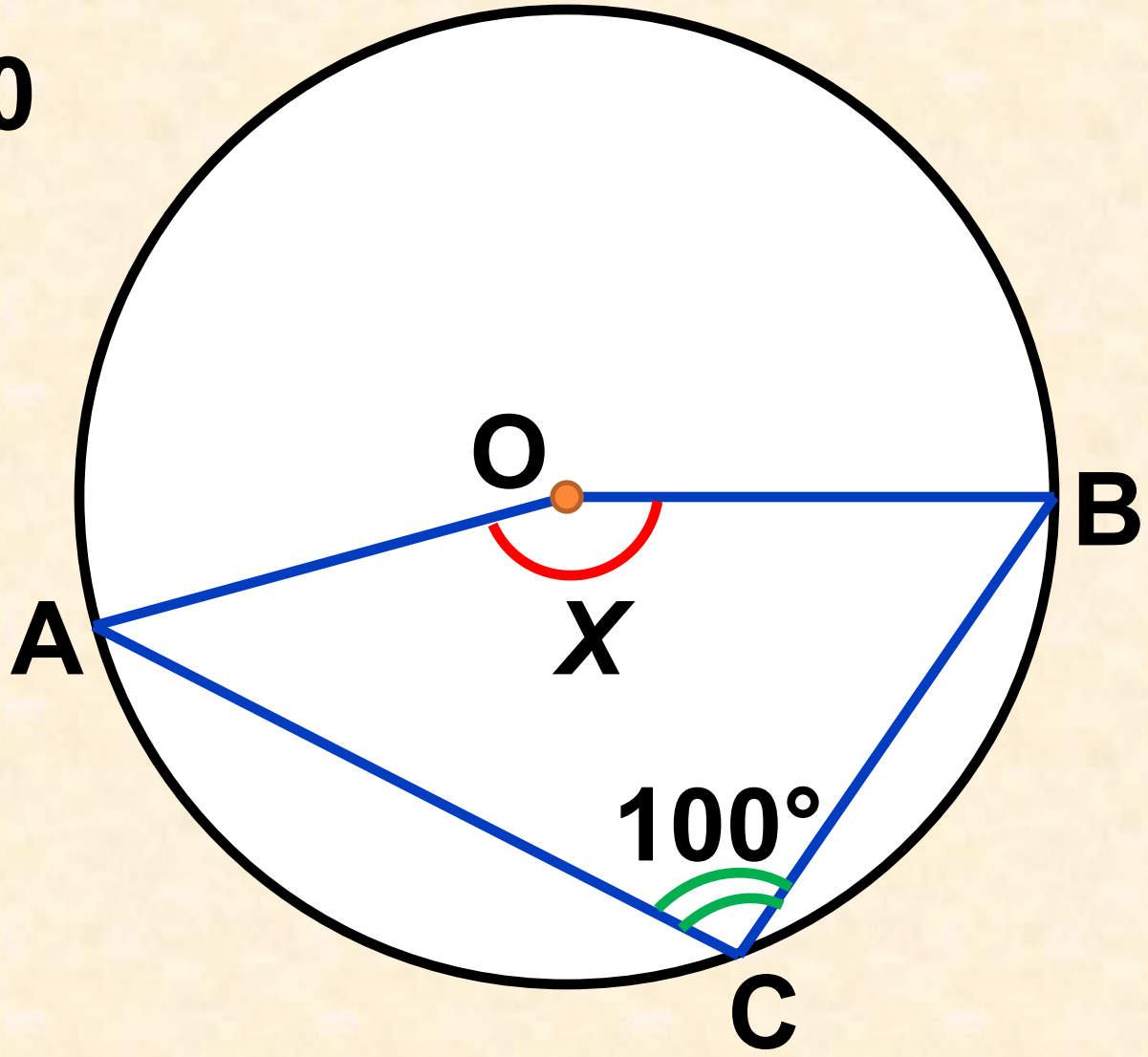


125°

Найдите *X*

№20

160°



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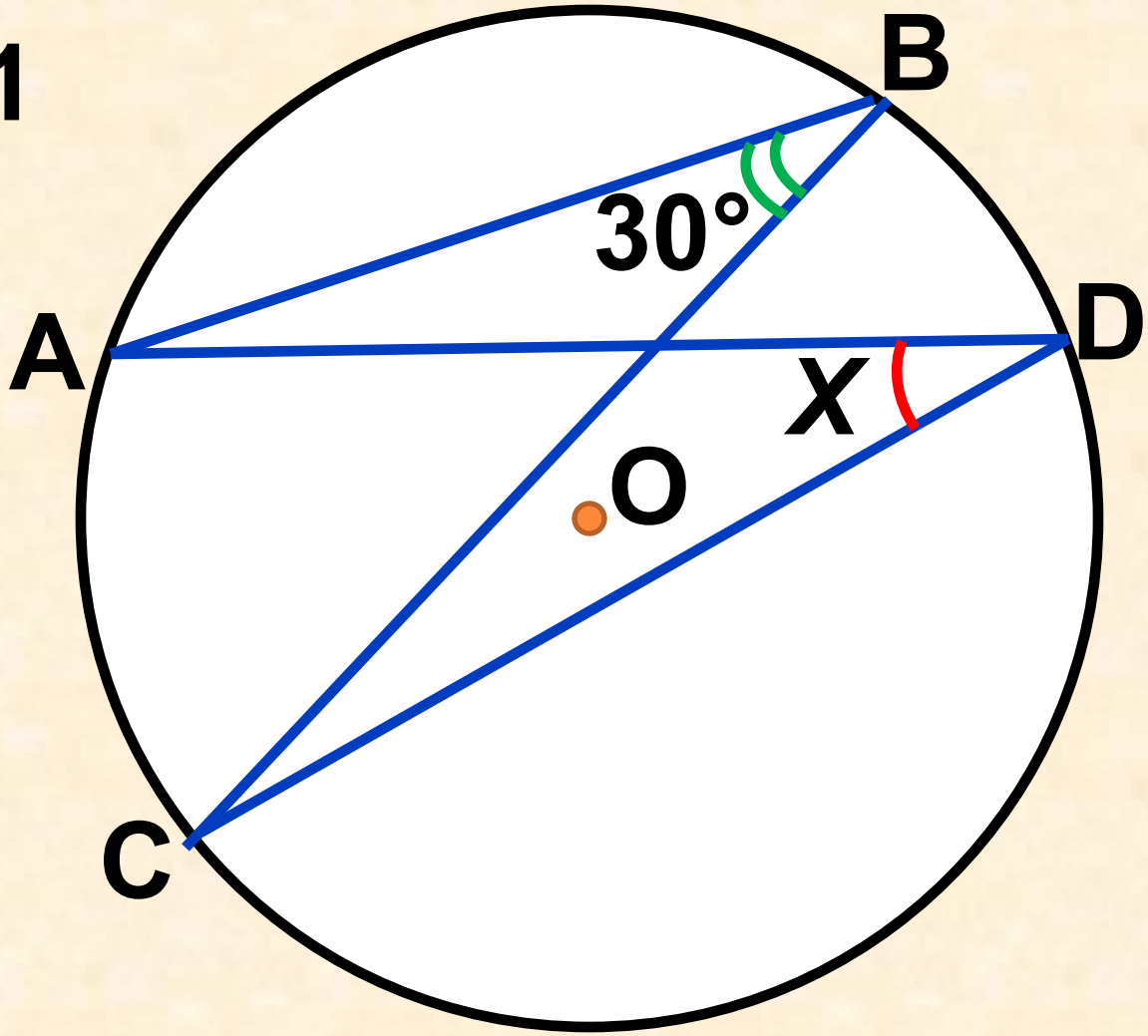

30°

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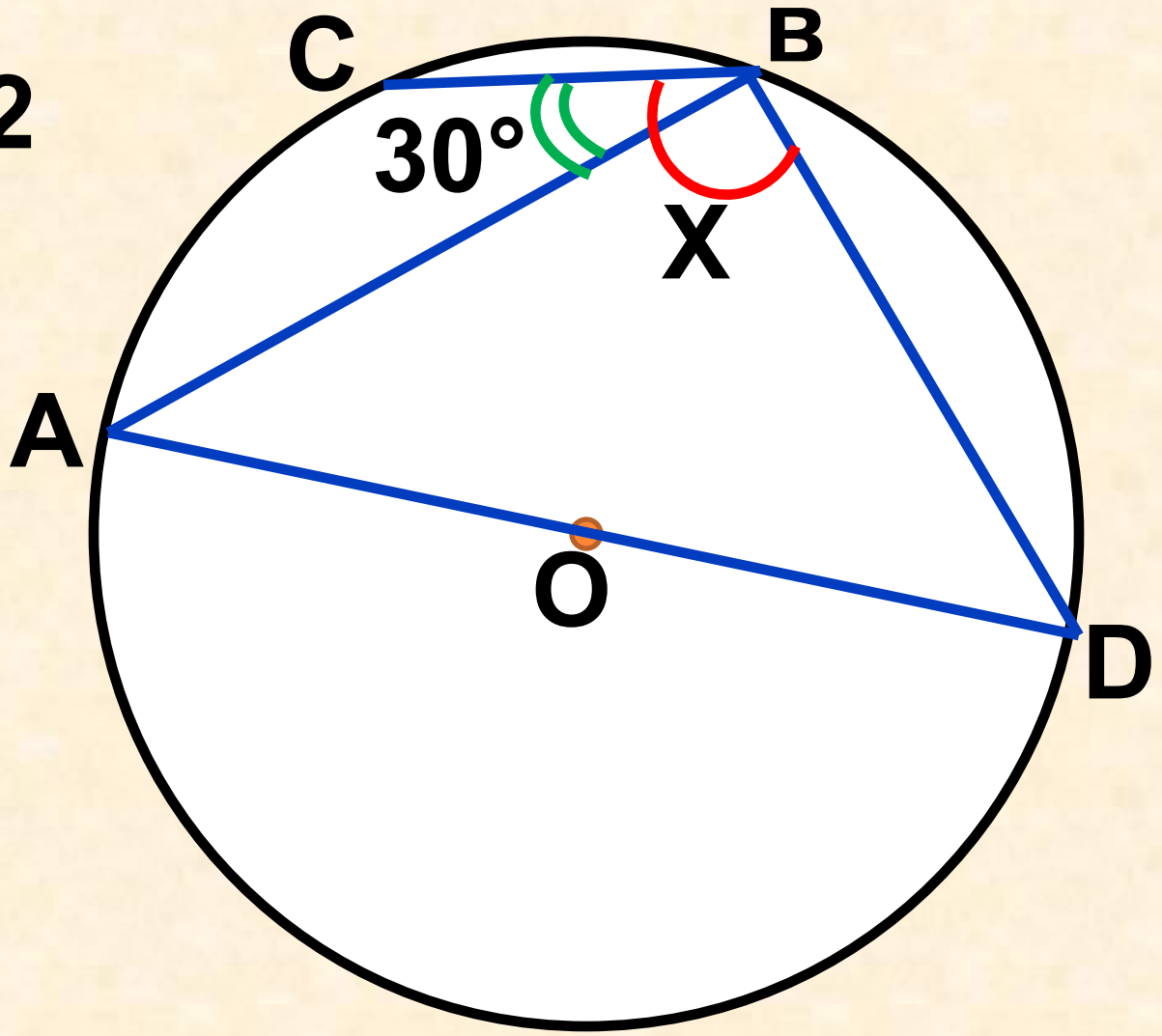
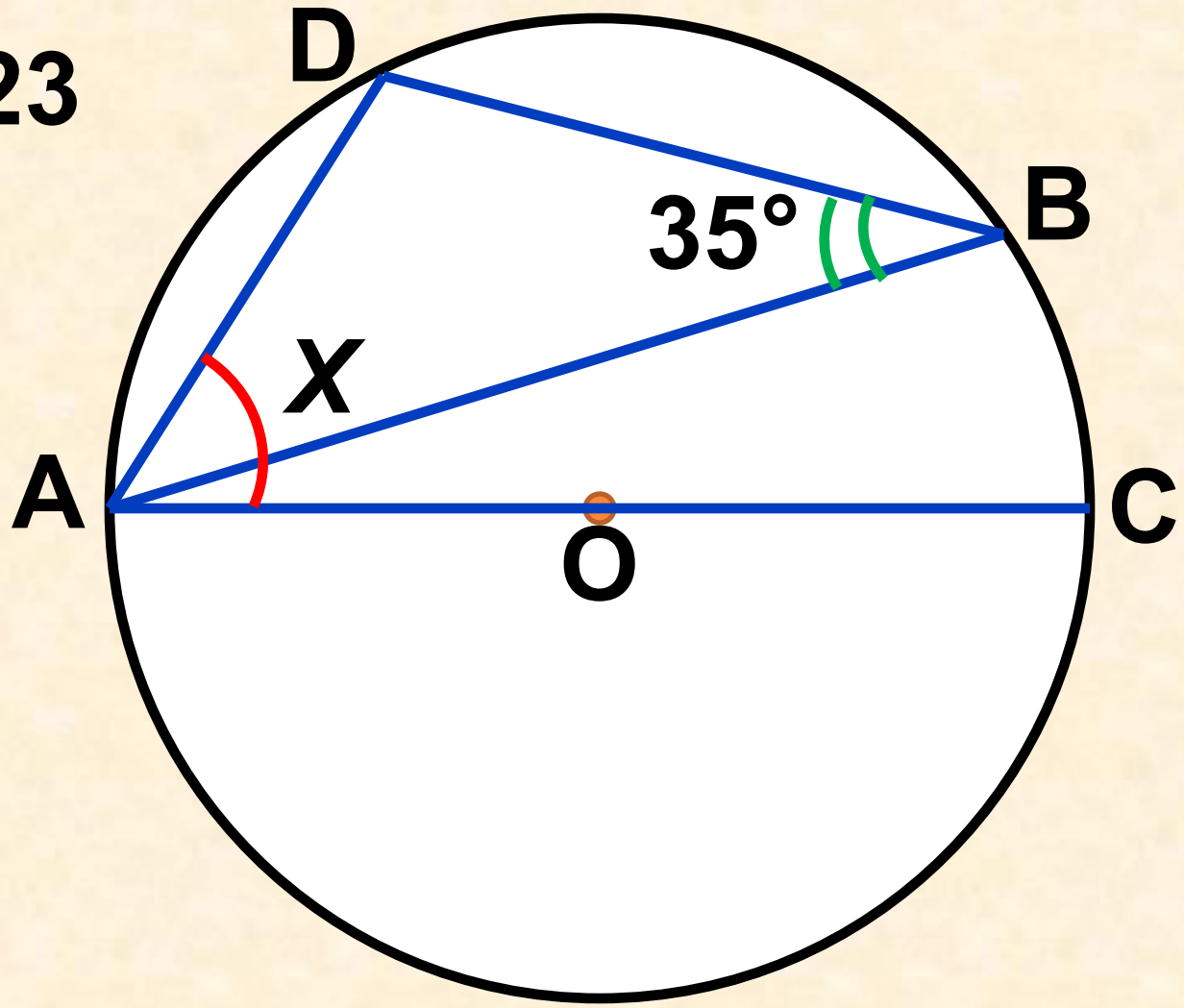


120°

Найдите *X*

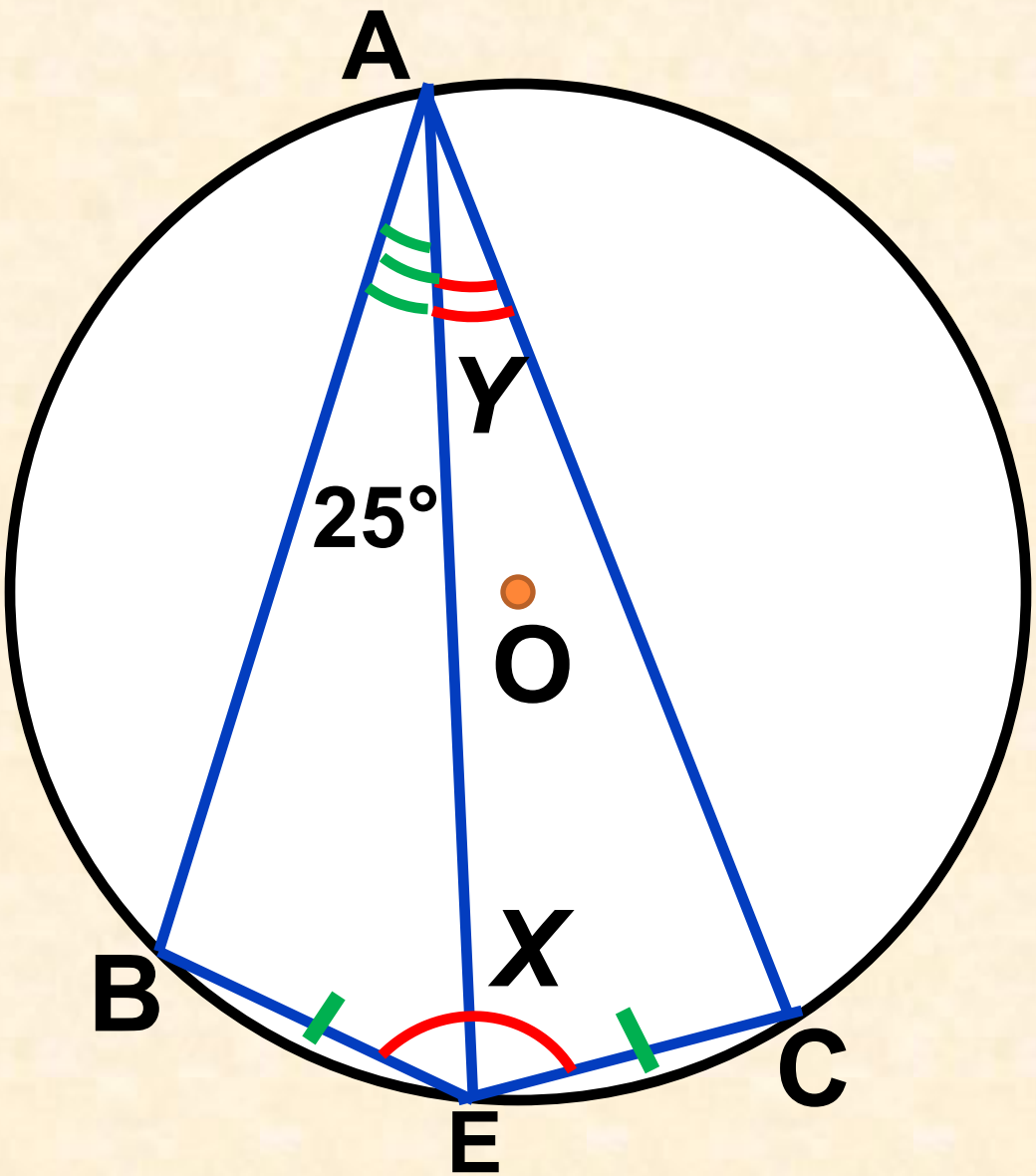
№23



55°

Найдите *X* И *Y*

№24

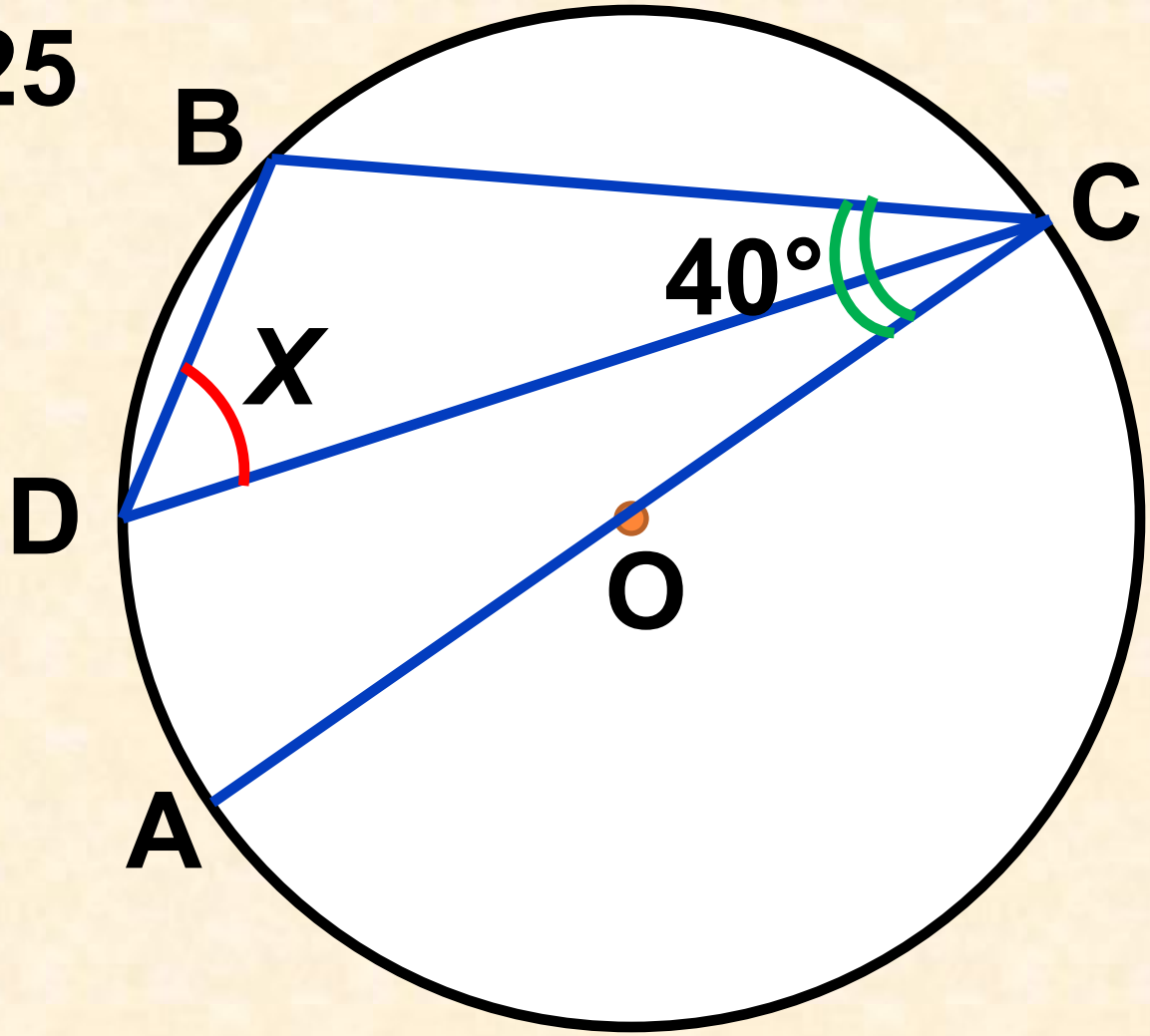


***Y*=25°**

***X*=130°**

Найдите *X*

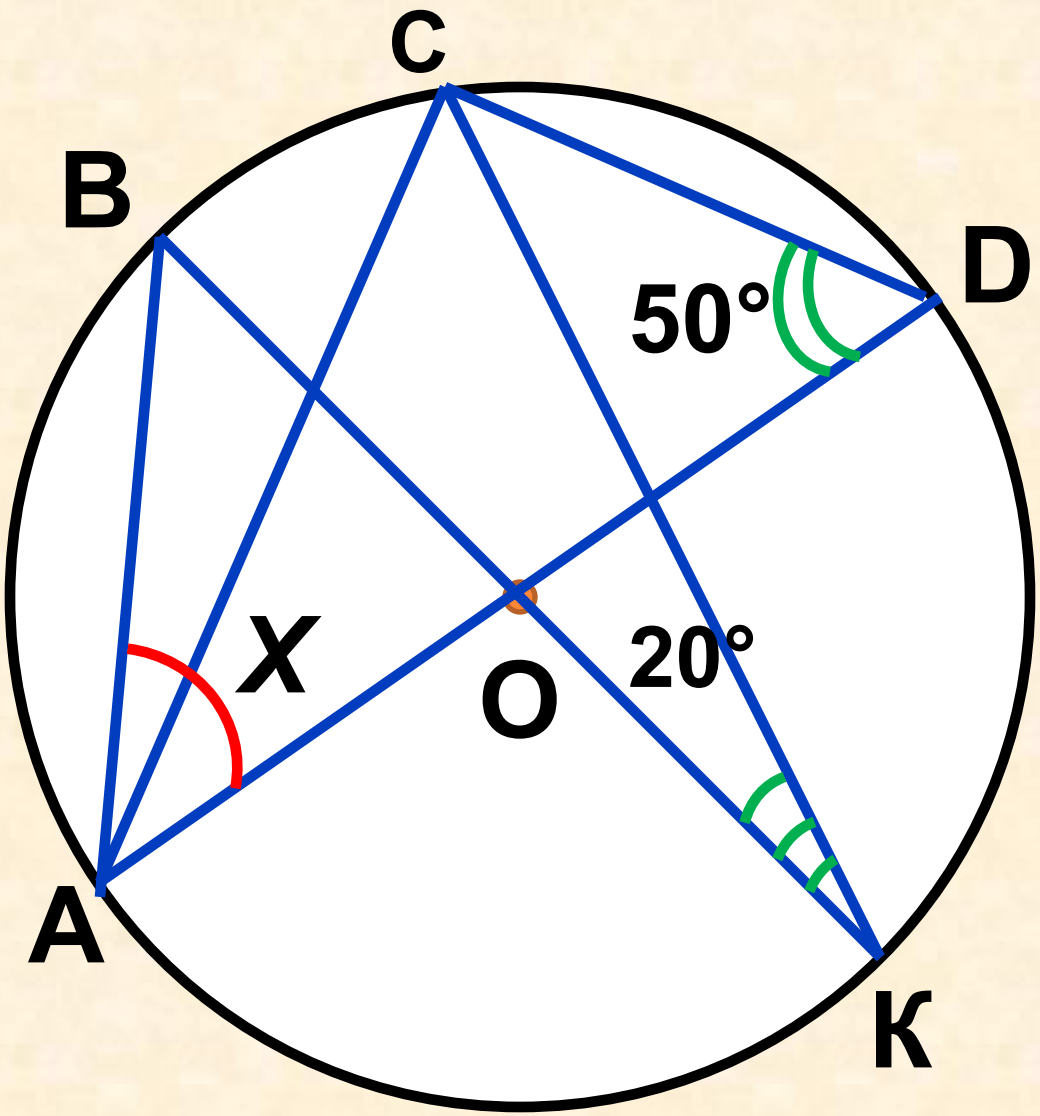
№25



50°

Найдите X

№26



60°