







Professor Ricardinho

Matemática – Frente B



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Ângulos numa circunferência

ASSISTA À AULA



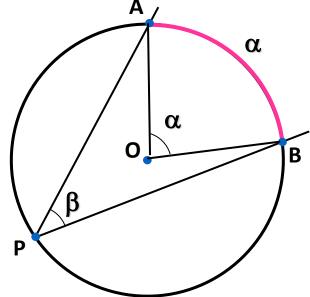
Matemática – Frente B





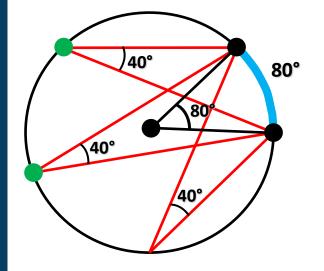


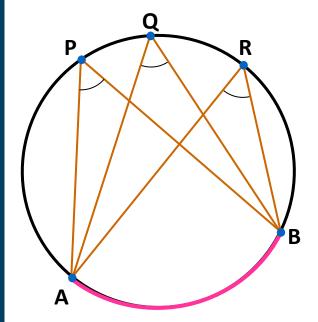
ÂNGULOS NUMA CIRCUNFERÊNCIA

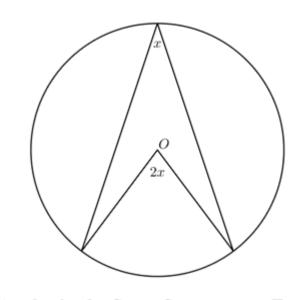


 $m(APB) = \beta = \frac{\alpha}{2}$









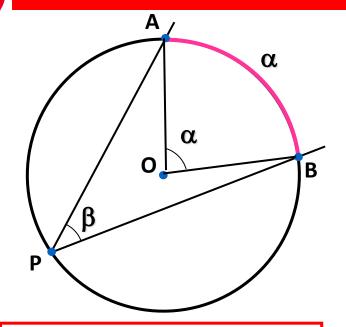
Angles in the Same Segment are Equ

$$m(APB) = m(AQB) = m(ARB) = \frac{AB}{2}$$



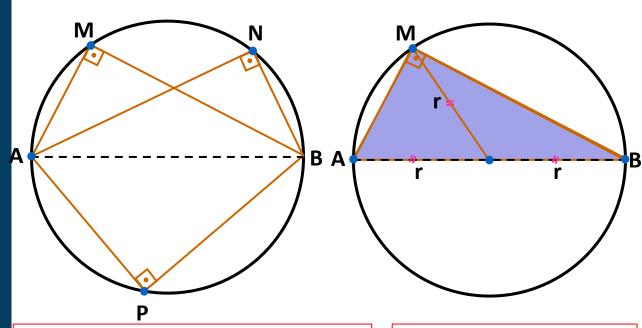


ÂNGULOS NUMA CIRCUNFERÊNCIA



$$m(APB) = \beta = \frac{\alpha}{2}$$

CONSEQUÊNCIA 1



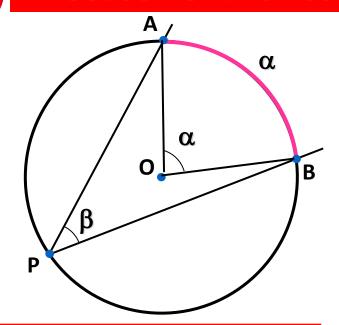
Unindo um ponto da circunferência aos extremos do diâmetro, formamos um triângulo retângulo

A medida da mediana de um triângulo retângulo relativa ao ângulo reto é sempre a metade da medida da hipotenusa





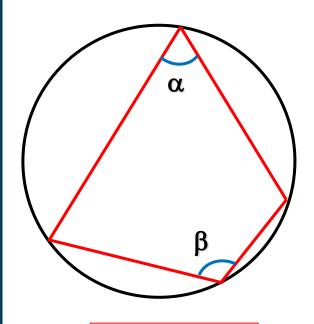
ÂNGULOS NUMA CIRCUNFERÊNCIA



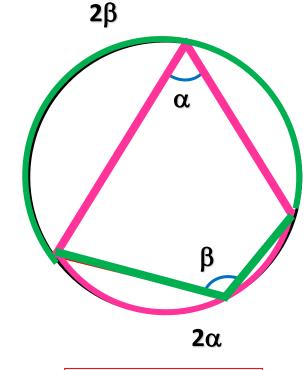
$$m(APB) = \beta = \frac{\alpha}{2}$$

CONSEQUÊNCIA 2

Quadrilátero Inscritível



$$\alpha + \beta = 180^{\circ}$$

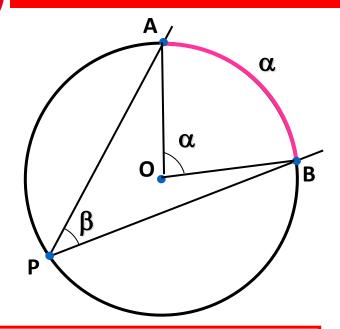


 $2\alpha + 2\beta = 360^{\circ}$





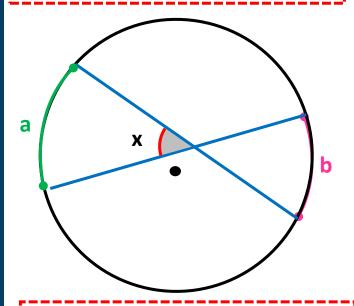
ÂNGULOS NUMA CIRCUNFERÊNCIA



$$m(APB) = \beta = \frac{\alpha}{2}$$

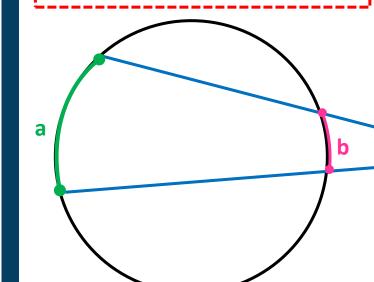
CONSEQUÊNCIA 3

ÂNGULO EXCÊNTRICO INTERIOR



$$x = \frac{a+b}{2}$$

ÂNGULO EXCÊNTRICO EXTERIOR

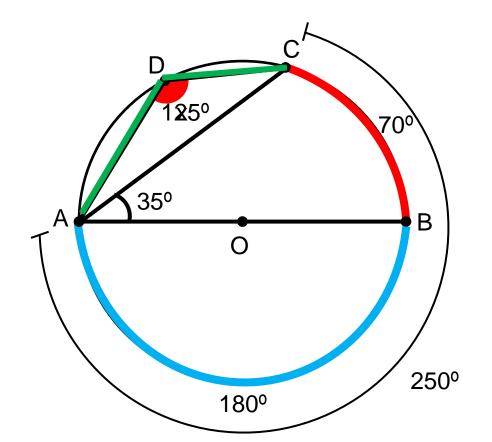


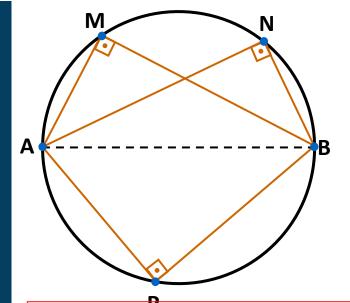
$$x = \frac{a - b}{2}$$



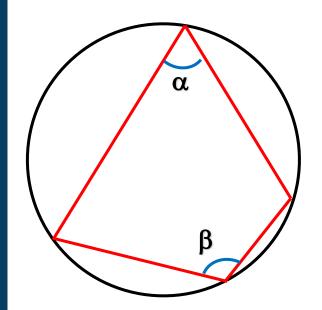
Exercícios em Sala

A medida do ângulo ADC inscrito na circunferência de centro O é:





Unindo um ponto da circunferência aos extremos do diâmetro, formamos um **triângulo** retângulo

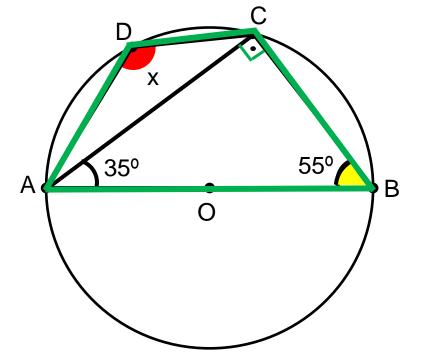


$$\alpha + \beta = 180^{\circ}$$



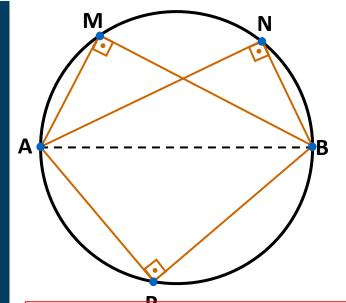
Exercícios em Sala

A medida do ângulo ADC inscrito na circunferência de centro O é:

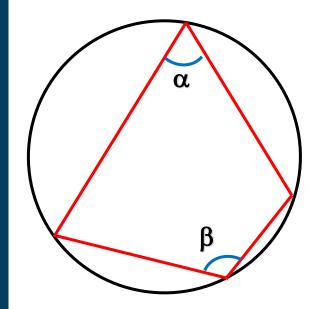


$$x + 55^{\circ} = 180^{\circ}$$

 $x = 125^{\circ}$



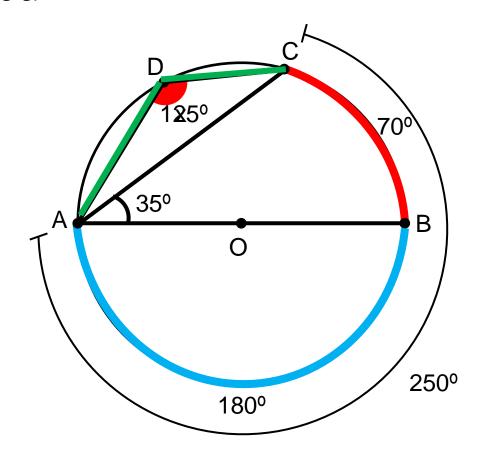
Unindo um ponto da circunferência aos extremos do diâmetro, formamos um **triângulo** retângulo

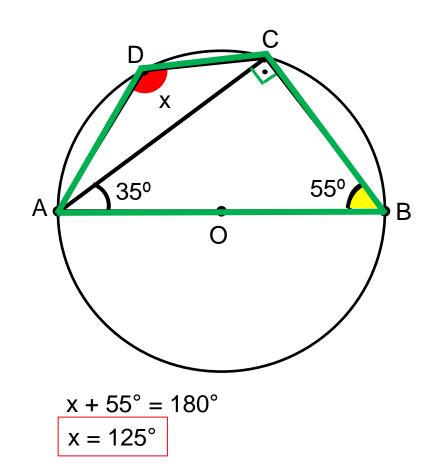


$$\alpha + \beta = 180^{\circ}$$

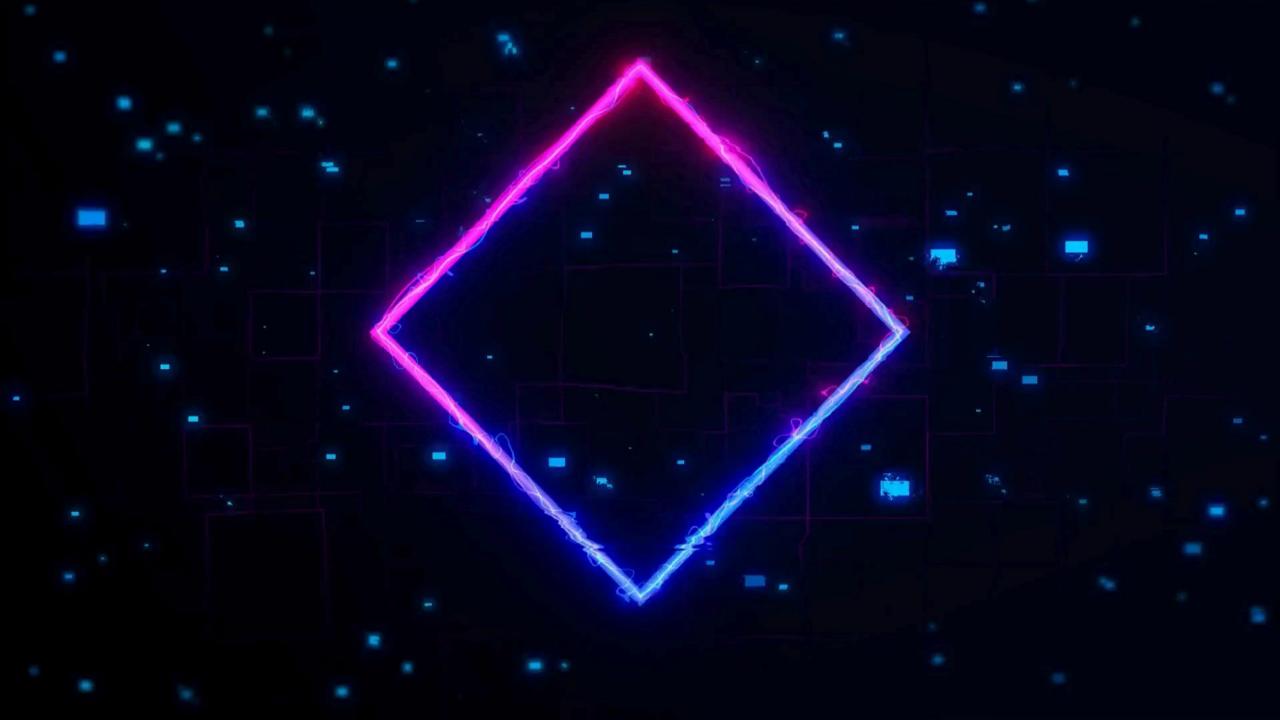


A medida do ângulo ADC inscrito na circunferência de centro O é:



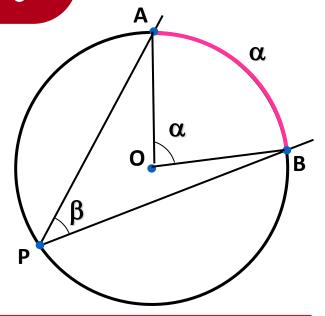




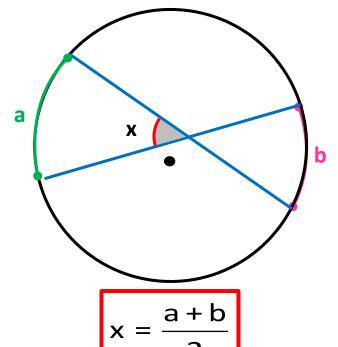


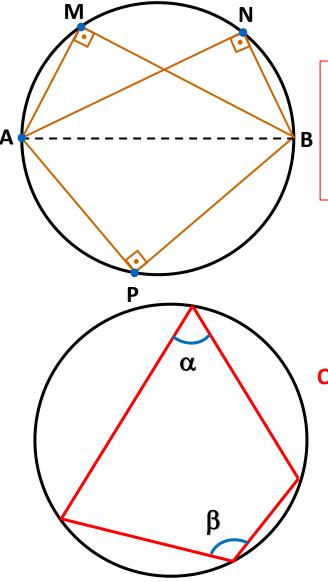
Resumo da Aula

ÂNGULOS NUMA CIRCUNFERÊNCIA



$$m(APB) = \beta = \frac{\alpha}{2}$$





Unindo um ponto da circunferência aos extremos do diâmetro, formamos um triângulo retângulo

Quadrilátero Inscritível

$$\alpha + \beta = 180^{\circ}$$

