



EJA

CANAL SEDUC-PI4



PROFESSOR (A):

**ALEXSANDRO
KESLLER**



DISCIPLINA:

MATEMÁTICA



AULA Nº:

09



CONTEÚDO:

**TRIÂNGULO
RETÂNGULO**

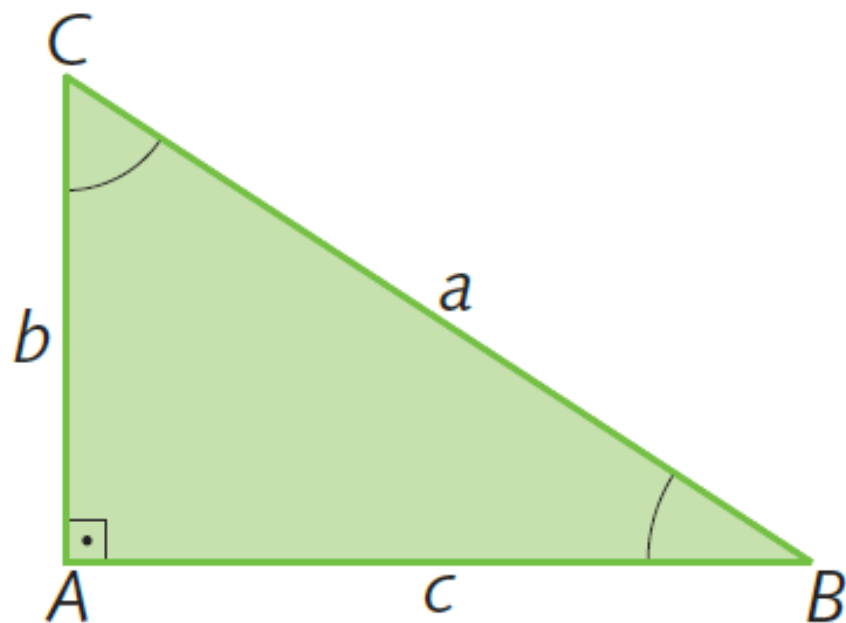


DATA:

16/06/2020

ATIVIDADE

01. Determine as seguintes razões trigonométricas



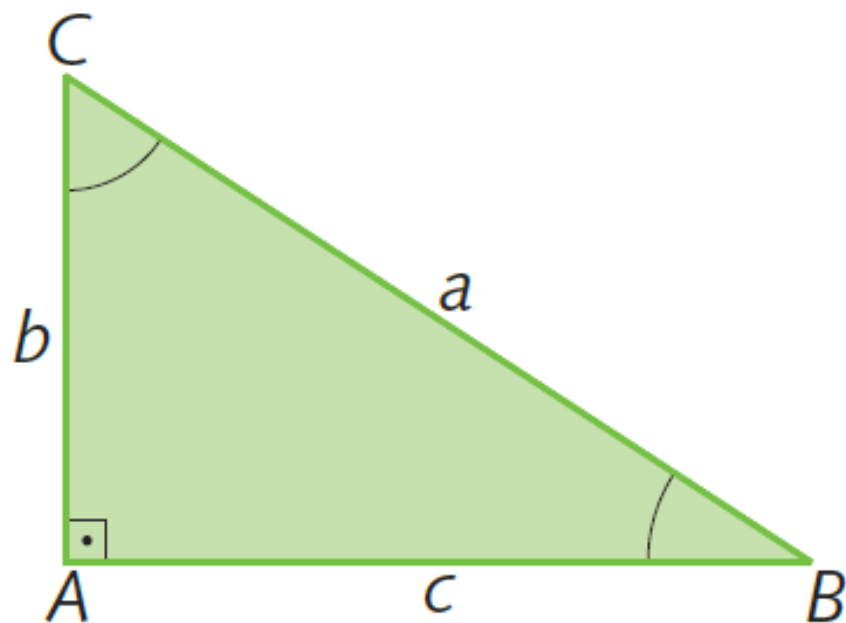
$$\text{sen } \hat{B} = \frac{b}{a}$$

$$\text{cos } \hat{B} = \frac{c}{a}$$

$$\text{tg } \hat{B} = \frac{b}{c}$$

ATIVIDADE

01. Determine as seguintes razões trigonométricas



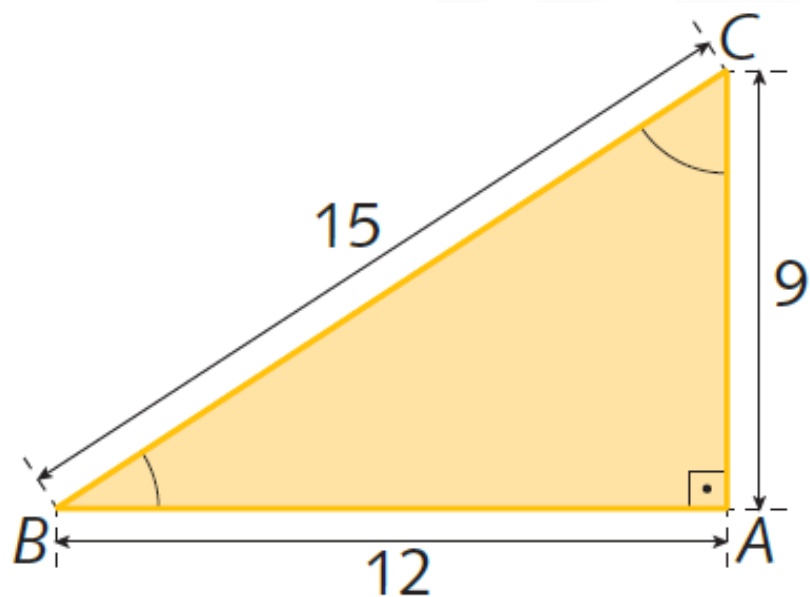
$$\text{sen } \hat{C} = \frac{c}{a}$$

$$\text{cos } \hat{C} = \frac{b}{a}$$

$$\text{tg } \hat{C} = \frac{c}{b}$$

ATIVIDADE

02. Com base no triângulo ABC , vamos calcular o seno, o cosseno e a tangente dos ângulos agudos.



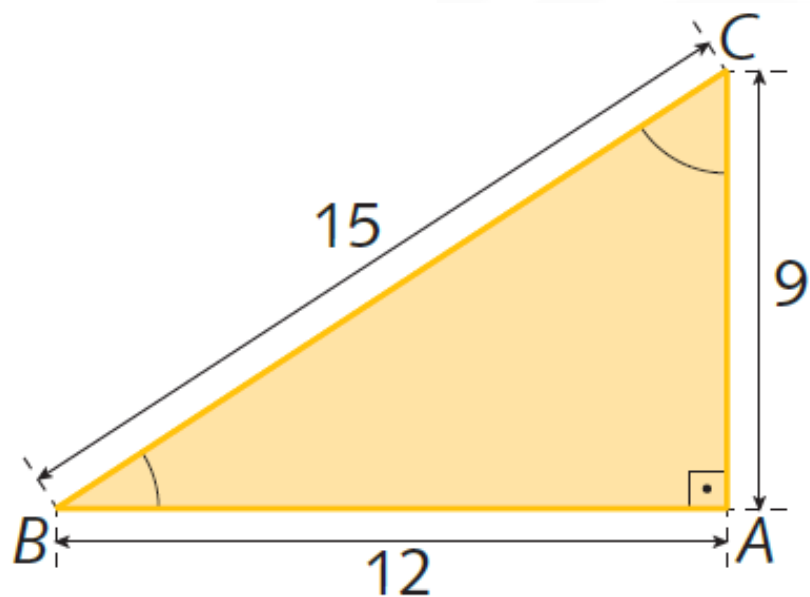
$$\text{sen } \hat{B} = \frac{\cancel{9}}{\cancel{15}} = \frac{3}{5}$$

$$\text{cos } \hat{B} = \frac{\cancel{12}}{\cancel{15}} = \frac{4}{5}$$

$$\text{tg } \hat{B} = \frac{\cancel{9}}{\cancel{12}} = \frac{3}{4}$$

ATIVIDADE

02. Com base no triângulo ABC , vamos calcular o seno, o cosseno e a tangente dos ângulos agudos.



$$\text{sen } \hat{C} = \frac{\cancel{12}}{\cancel{15}} = \frac{4}{5}$$

$$\text{cos } \hat{C} = \frac{\cancel{9}}{\cancel{15}} = \frac{3}{5}$$

$$\text{tg } \hat{C} = \frac{\cancel{12}}{\cancel{9}} = \frac{4}{3}$$

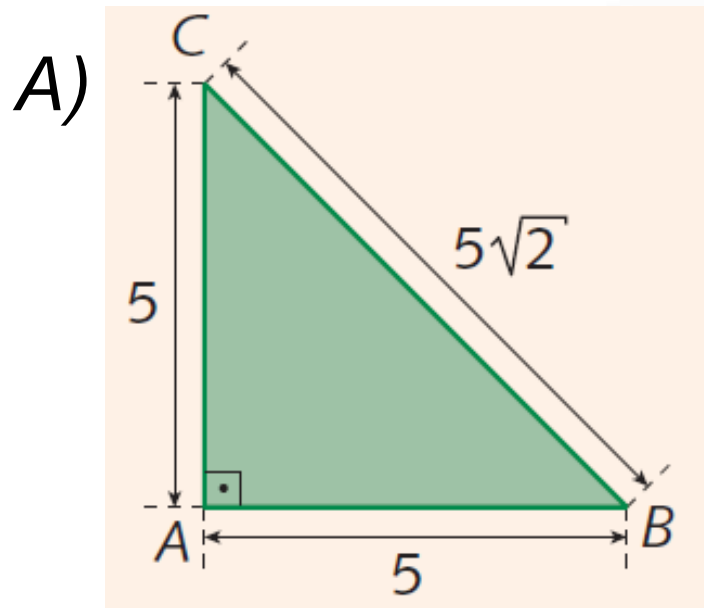
Tabela de arcos notáveis

Tabela dos valores trigonométricos de ângulos notáveis.

x	30°	45°	60°
$\text{sen } x$	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
$\text{cos } x$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
$\text{tg } x$	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

ATIVIDADE

03. Determine as seguintes razões trigonométricas



$$\text{sen} \hat{B} = \frac{\cancel{5}}{\cancel{5\sqrt{2}}}$$

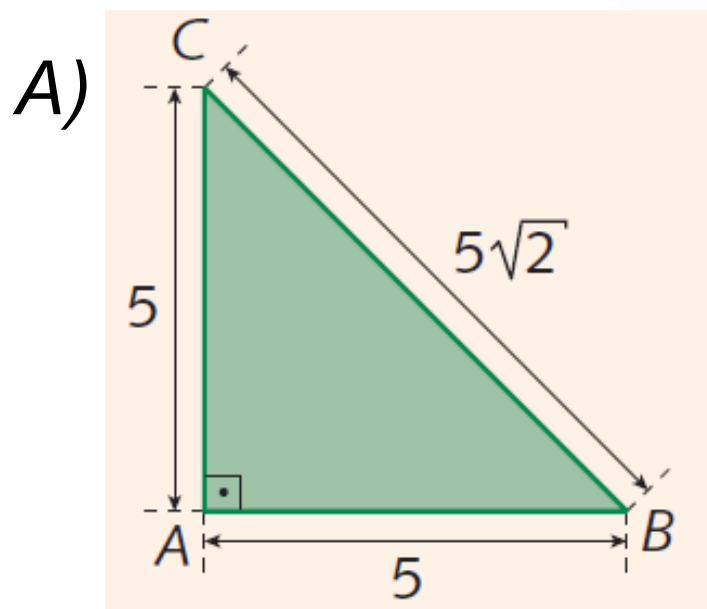
$$\text{sen} \hat{B} = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$\text{sen} \hat{B} = \frac{\sqrt{2}}{2}$$

sen \hat{B} ; cos \hat{C} ; tg \hat{B}

ATIVIDADE

01. Determine as seguintes razões trigonométricas



$$\cos \hat{C} = \frac{\cancel{5}}{\cancel{5\sqrt{2}}}$$

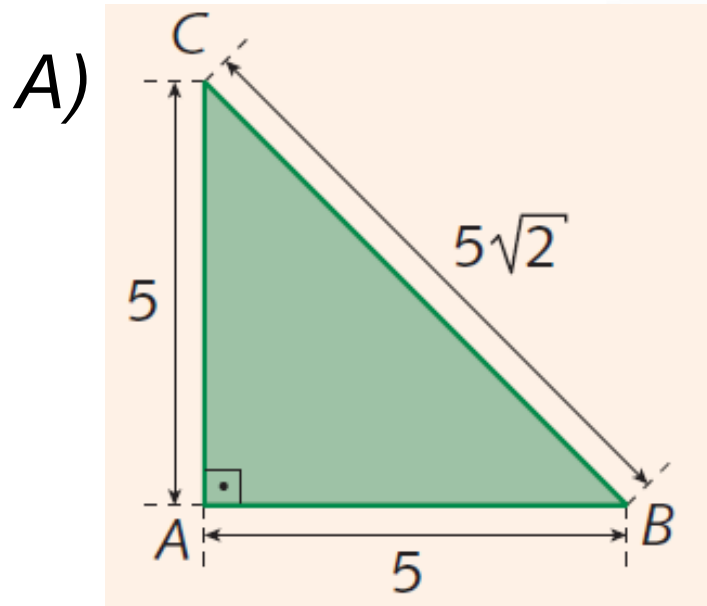
$$\cos \hat{C} = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$\cos \hat{C} = \frac{\sqrt{2}}{2}$$

sen \hat{B} ; cos \hat{C} ; tg \hat{B}

ATIVIDADE

01. Determine as seguintes razões trigonométricas



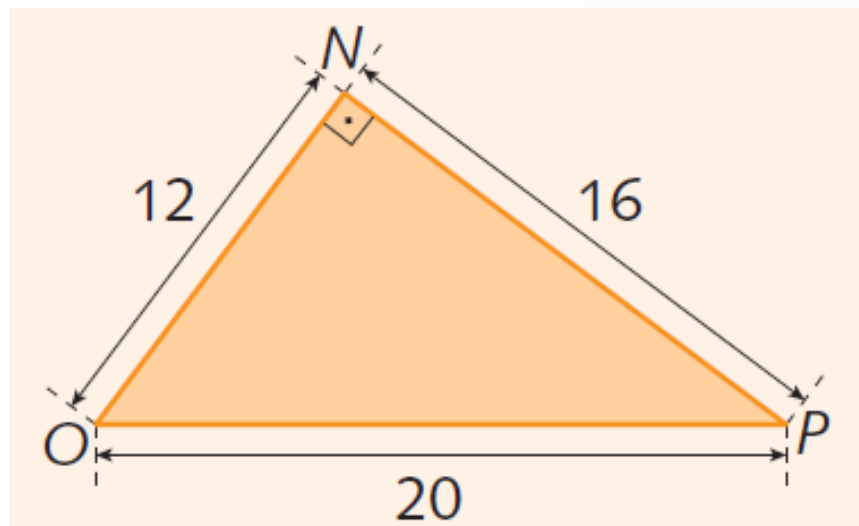
$$\text{tg} \hat{B} = \frac{5}{5}$$

$$\text{tg} \hat{B} = 1$$

sen \hat{B} ; cos \hat{C} ; tg \hat{B}

ATIVIDADE PARA CASA

01. Determine as seguintes razões trigonométricas



$$\text{sen } \hat{O}; \text{cos } \hat{P}; \text{tg } \hat{P}$$



ATIVIDADE PARA CASA

02. Complete a Tabela de ângulos notáveis.

x	30°	45°	60°
$\text{sen } x$			
$\text{COS } x$			
$\text{tg } x$			



NA PRÓXIMA AULA

Trigonometria no Triângulo Retângulo

- Razões trigonométricas no triângulo retângulo;***
- Tabela de arcos notáveis.***