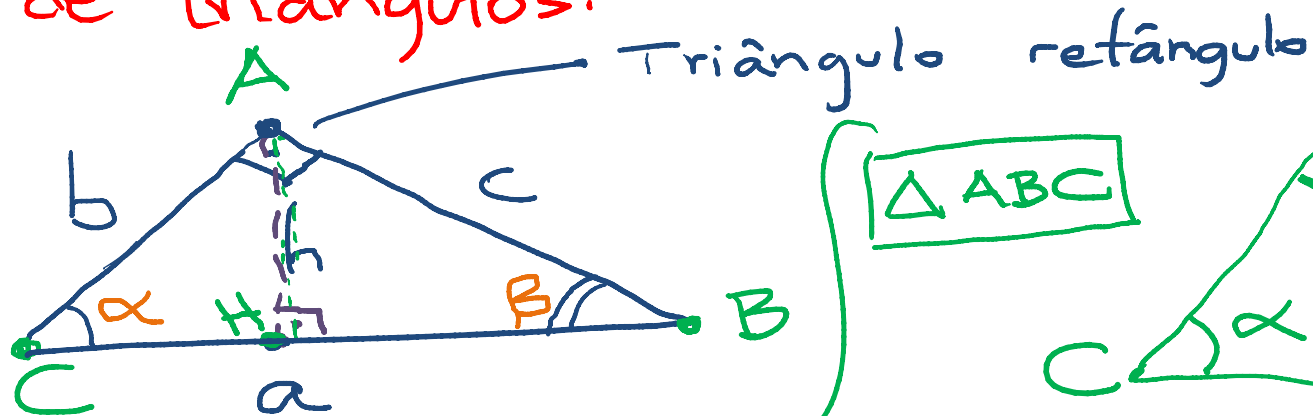


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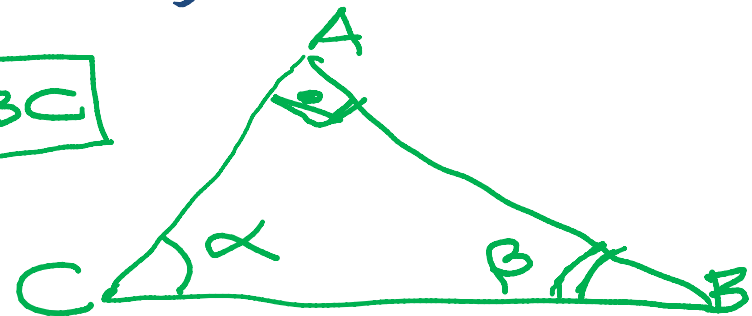
Aplicação Muito Importante da Semelhança de triângulos:



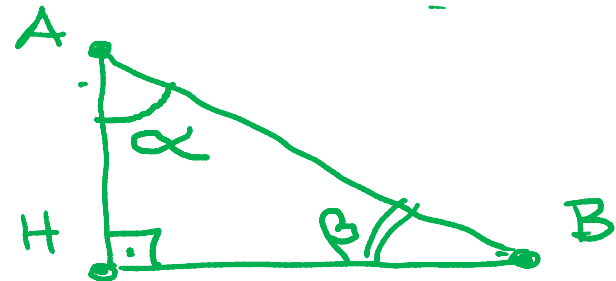
obs.:  
 $\alpha + \beta = 90^\circ$

3 triângulos  
Semelhantes

$\triangle ABC$



$\triangle BHA$



$\triangle CHA$



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## Física:

### TERMOLOGIA:

Exemplo: 20,5°C → graus Celsius (°C)

Fahrenheit (°F)

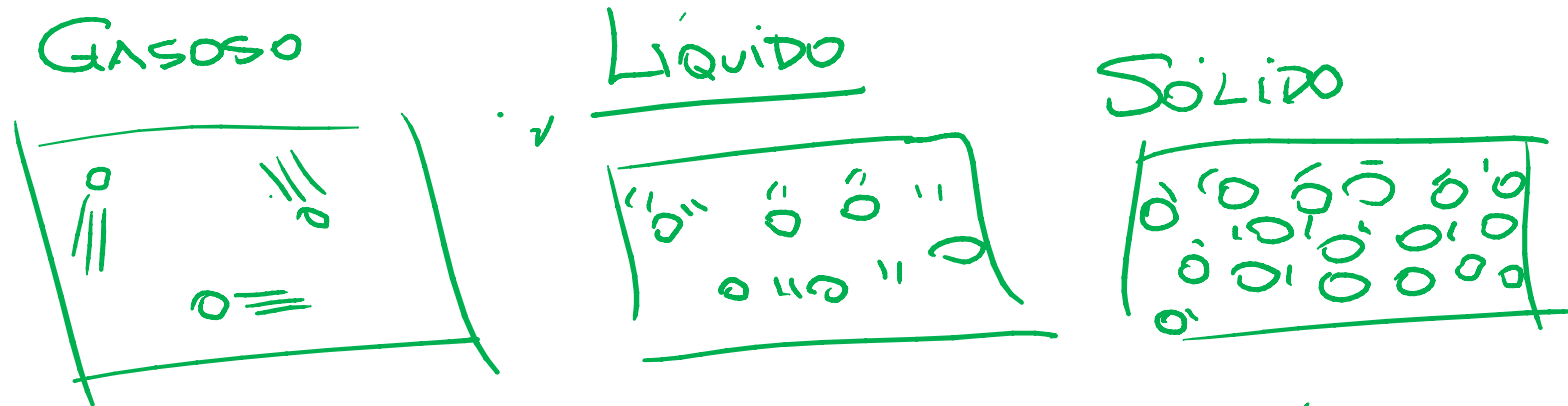
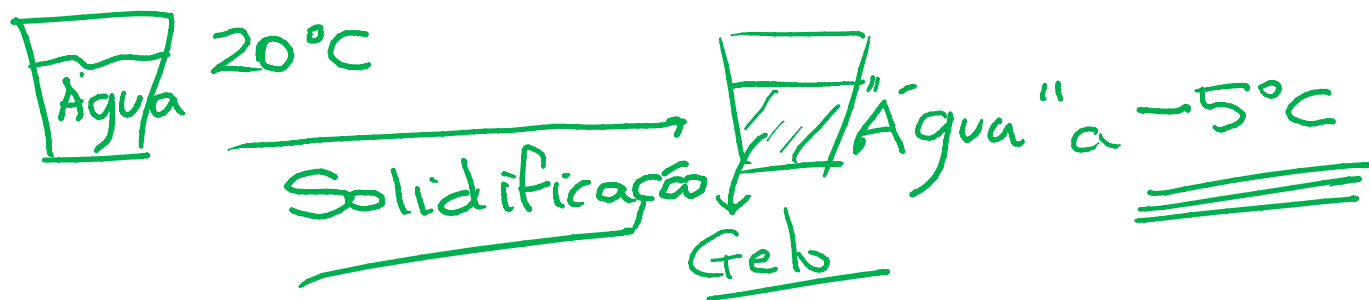
Kelvin (K)



ESCALA ABSOLUTA

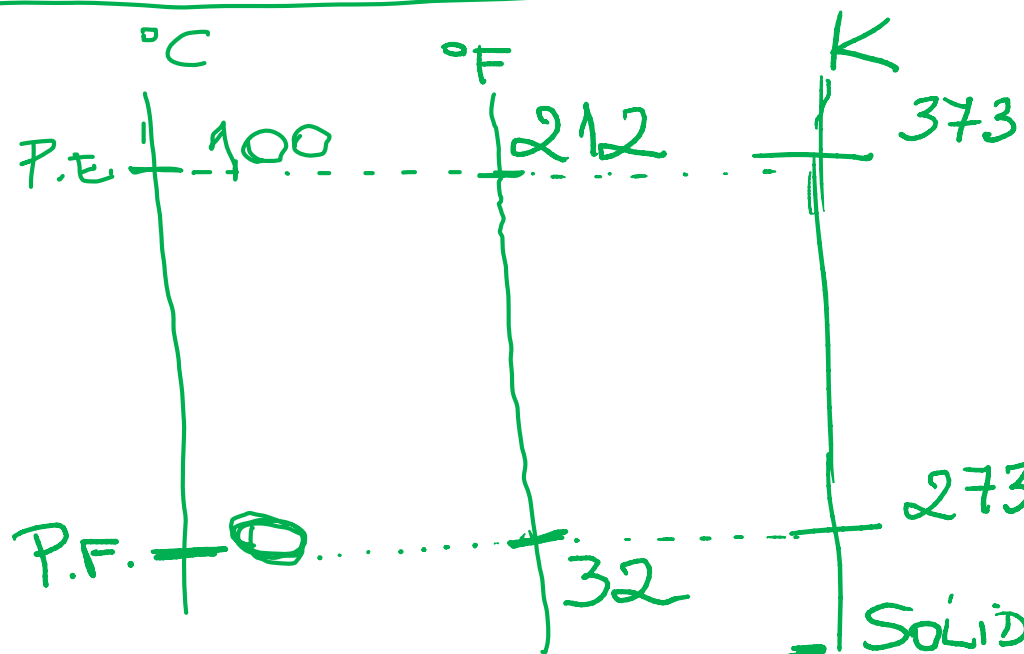
(Somente valores positivos)

Obs.: Não escreveremos  
grau Kelvin.



Zero Kelvin

## Escalas Termométricas:

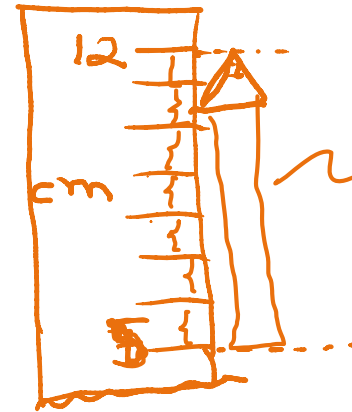
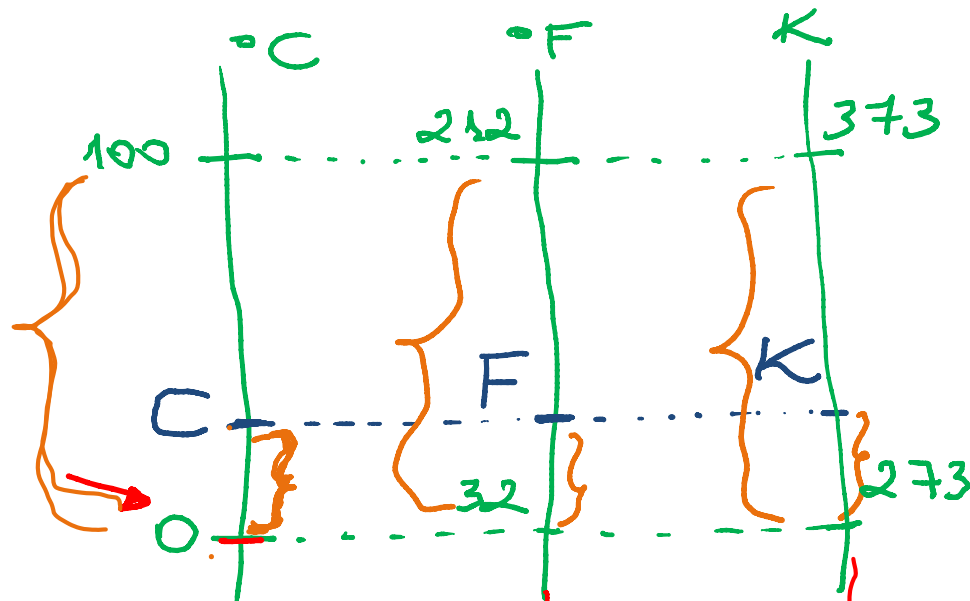


P.F.  $\rightarrow$  Ponto de Fusão

Líquido  $\rightarrow$  Gasoso

P.E.  $\rightarrow$  Ponto de Ebulição

Novamente



Lapis  
 $12 - 5 = 7$   
 Nos Romanos

I X CM  
 ↓  
 5 V LD

$$\frac{C - 0}{100 - 0} = \frac{F - 32}{212 - 32} = \frac{K - 273}{373 - 273}$$

$$\frac{C}{100} = \frac{F - 32}{180} = \frac{K - 273}{100}$$

$$\frac{C}{5} = \frac{F - 32}{9} = \frac{K - 273}{5}$$

$$S = \frac{1}{2}$$

$$\frac{C}{5} = \frac{F-32}{9} = \frac{K-273}{5}$$

Conversão entre  
°C e °F:

$$\boxed{\frac{C}{5} = \frac{F-32}{9}}$$

Entre  
°F e K:

$$\boxed{\frac{F-32}{9} = \frac{K-273}{5}}$$

Entre  
°C e K:

$$\dots \frac{\cancel{C}}{\cancel{5}} = \frac{K-273}{\cancel{5}}$$

$$\boxed{C = K - 273}$$

Exemplo:

$T_{hoje} = 20^{\circ}\text{C}$  
 $\nearrow ?^{\circ}\text{F}$   
 $\searrow ?^{\circ}\text{K}$