# UDS

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Nombre de la materia: química
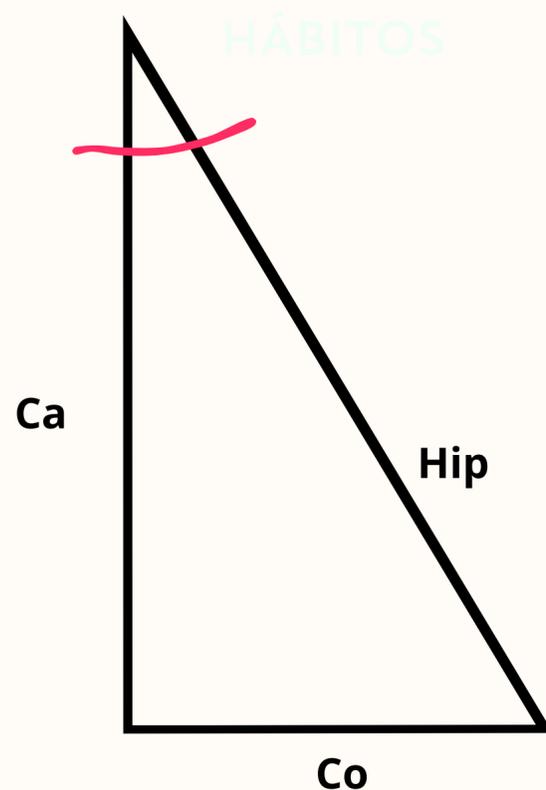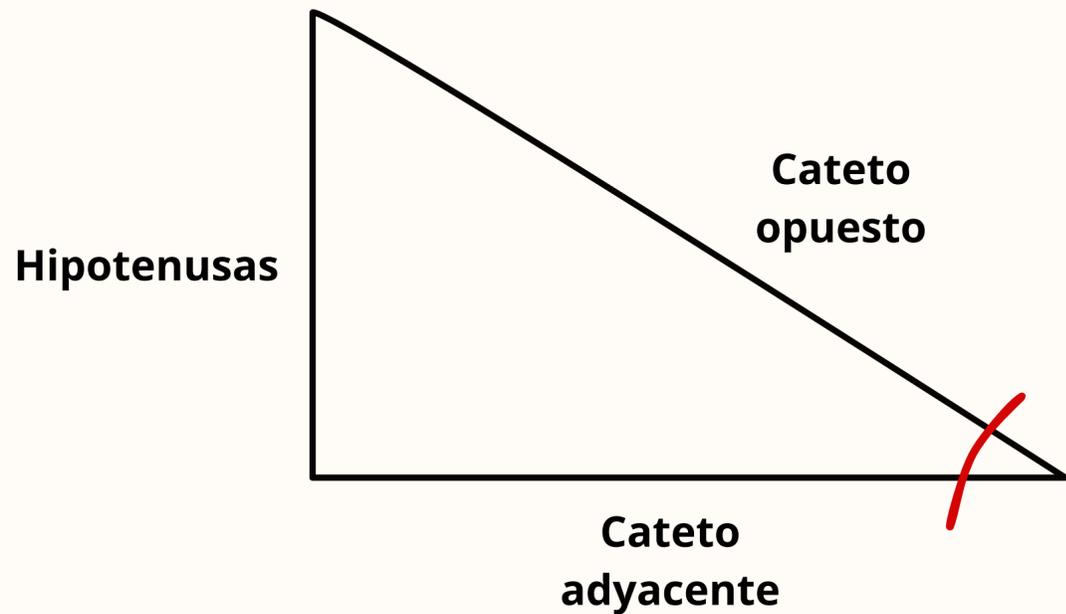
Cuatrimestre: 2nd cuatrimestre

Parcial:4 parcial

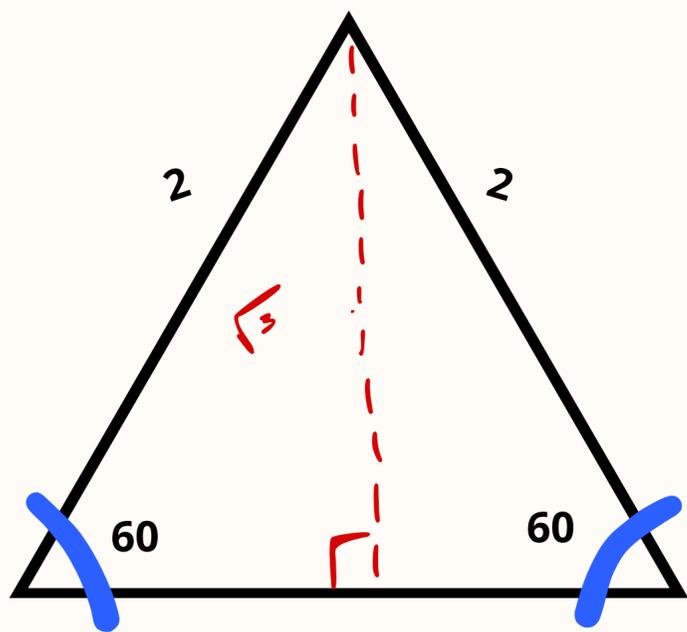Nombre de la especialidad: Tecnico en Administracion en Recursos Humanos

# FUNCIONES TRIGONOMETRICAS

$$Sen\,\theta\, \frac{co}{hip}$$
$$Cos\,\theta\, \frac{ca}{hip}$$
$$Tan\,\theta\, \frac{co}{ca}$$

Hipotenusas

Cateto opuesto

Cateto adyacente

Ca

Hip

Co

HÁBITOS

$$O^2 = a^2 + b^2$$
$$b^2 = c^2 - a^2$$
$$b^2 = 2^2 - 1^2 \Rightarrow b^2 = 4 - 1 \Rightarrow b^2 = 3 \Rightarrow b = \sqrt{3}$$

2    2

$\sqrt{3}$

60    60

**Sen 30°** : $\frac{1}{2} = 0.5$

**Cos 30°** : $\frac{\sqrt{3}}{2} \Rightarrow \frac{1.17}{2} = 0.86$

**Tan 30°**: $\frac{1}{\sqrt{3}}\left(\frac{\sqrt{3}}{\sqrt{3}}\right) = \frac{\sqrt{3}}{3} = \frac{1.17}{3} = 0.57$

hip
2

30

Ca
$\sqrt{3}$

hip
2

Co

$\sqrt{3}$

60

CO

Ca
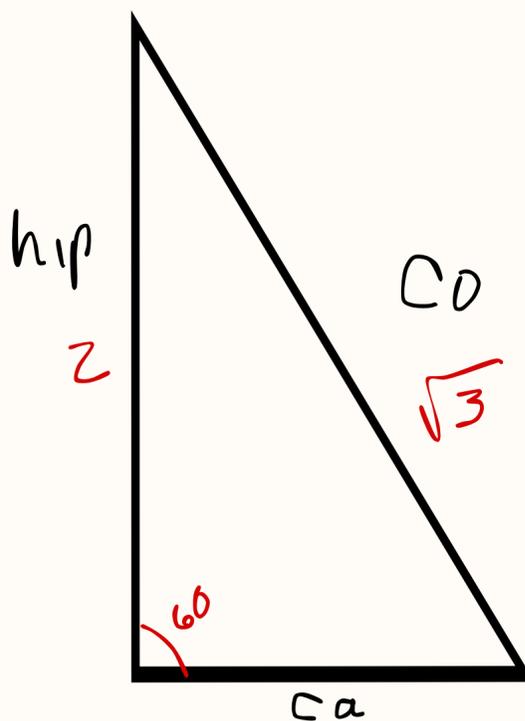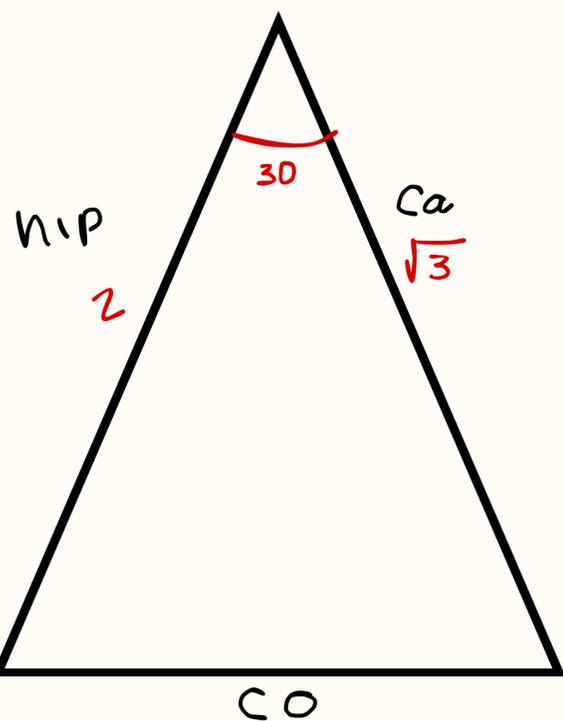
**Sen 60°**: $\frac{co}{hip} = 0.86$

**Cos 60°**: $\frac{ca}{hip} = 30$

**Tan 60°**: $\frac{co}{ca} = 1.7$
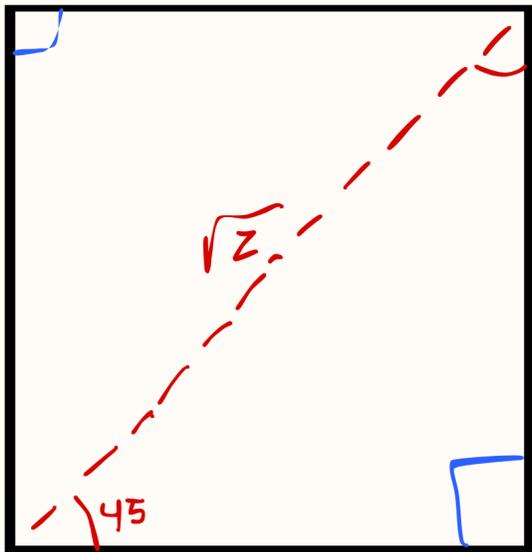
**Sen 60°: Cos 60°**

**Sen 60°: Cos 30°**

**Tan 30°: Tan⁻¹(60°)**

**sen 45°: Cos 45°**

$$C^2 = a^2 + b^2$$
$$c^2 = 1^2 + 1^2$$
$$c^2 = 2 \Rightarrow c\sqrt{2}$$

**Sen 45°:** $\dfrac{1}{\sqrt{2}} = \dfrac{\sqrt{2}}{2}$

**Cos 45°:** $\dfrac{1}{\sqrt{2}} = \dfrac{\sqrt{2}}{2}$

**Tan 45°:** $\dfrac{1}{1} = 1$

$\sqrt{2}$

45

|  | **30°** | **60°** | **45°** |
|---|---|---|---|
| Sen | 0.5 | 0.86 | 0.7 |
| Cos | 0.86 | 0.50 | 0.7 |
| Tan | 0.57 | 1.17 | 1 |