

exercícios de fixação - Círcunferência trigonométrica - prof. Hipácia

1. Calcule:

$$\text{sen } \frac{3\pi}{2}$$

$$\text{sen } \pi$$

$$\text{sen } 120^\circ$$

$$\text{sen } 150^\circ$$

$$\text{sen } 225^\circ$$

$$\text{sen } 300^\circ$$

$$\text{sen } 2\pi$$

$$\text{sen } 330^\circ$$

$$\text{cos } 330^\circ$$

$$\text{cos } 90^\circ$$

$$\text{cos } 120^\circ$$

$$\text{cos } \pi$$

$$\text{cos } 3\pi/2$$

$$\text{cos } 5\pi/4$$

$$\text{cos } 5\pi/3$$

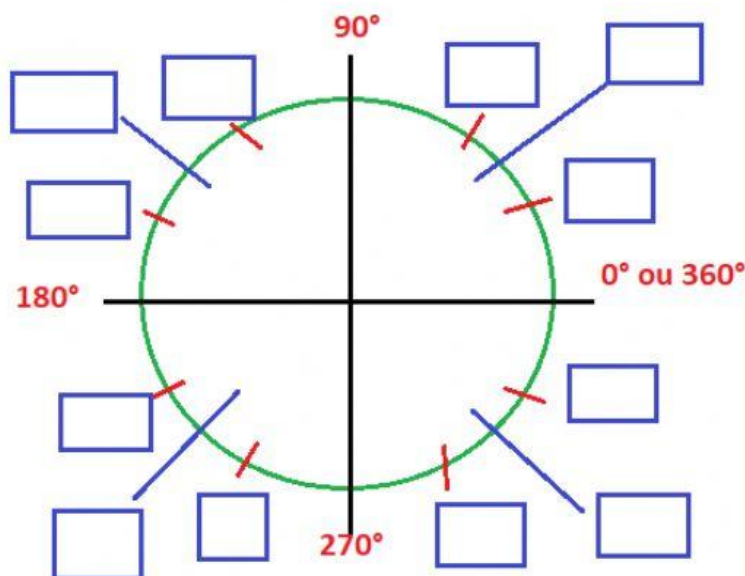
$$\text{cos } 0$$

$$\text{tg } 180^\circ$$

$$\text{tg } 210^\circ$$

$$\text{tg } 90^\circ$$

$$\text{tg } 240^\circ$$



arcos extremos quadrantes

	sen	cos	tg
0°	0	1	0
90°	1	0	ñ ex
180°	0	-1	0
270°	-1	0	ñ ex
360°	0	1	0

SE	TA	CO	+
12	13	14	QUADRANTES

arcos notáveis

	30°	45°	60°
sen	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
cos	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
tan	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$

2. Resolva as equações seguintes, sendo $U = [0, 2\pi[$

$$\text{sen } x = 1/2$$

$$\text{cos } x = 0$$

$$\text{cos } x = -\frac{1}{2}$$

$$\text{sen } x = 0$$

$$\text{cos } x = \frac{\sqrt{2}}{2}$$

$$6 \cdot \text{cos } x + 6 = 0$$

$$\text{sen } x = -1$$

$$\text{sen } x = -\sqrt{2}/2$$

$$\text{sen } x = 2$$

$$\text{cos } x = 1$$

$$4 \cdot \text{cos}^2 x = 3$$

$$4 \text{sen}^2 x - 3 = 0$$

3. Calcule o valor de cada expressão seguinte:

a) $y = \frac{\text{cos } 90^\circ - \text{cos } 180^\circ}{\text{cos } 60^\circ \cdot \text{cos } 0^\circ + \text{cos } 90^\circ}$

b) $x = \text{cos } \frac{\pi}{4} \cdot \text{cos } \frac{\pi}{2} + \text{cos } \pi \cdot \text{cos } \frac{\pi}{6}$

c) $y = \frac{\text{sen } 0 + \text{sen } \frac{\pi}{2} - \text{sen } \frac{3\pi}{2}}{2 \cdot \text{sen } \frac{\pi}{6}}$