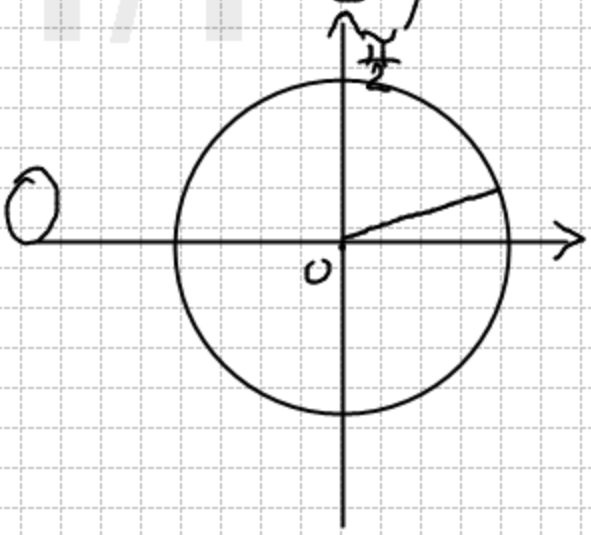
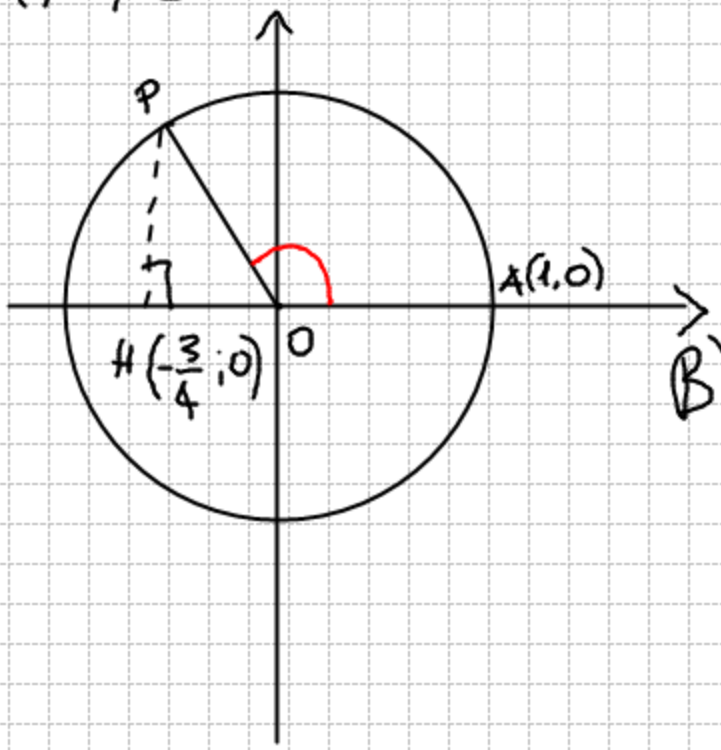
N° 64

$$tg\frac{\pi}{6}\cdot\left(sen\frac{\pi}{6}-\cos\frac{\pi}{3}\right)+ctg\frac{\pi}{3}\cdot\left(\cos 2\pi-sen\frac{\pi}{2}\right)=$$

$$=\frac{1}{\sqrt{3}}\cdot\left(\frac{1}{2}-\frac{1}{2}\right)+\frac{1}{\sqrt{3}}\cdot\left(1-1\right)=0$$



N° 75



a) $sen(\alpha)-\cos(\alpha)=\frac{\sqrt{7}}{4}+\frac{3}{4}$

$\overline{PH}=\sqrt{PO^2-OH^2}=\sqrt{1-\frac{9}{16}}=\sqrt{\frac{7}{16}}=+\frac{\sqrt{7}}{4}$

B) $\sec\alpha-2tg\alpha$

$$\frac{1}{-\frac{3}{4}}-2\frac{\frac{\sqrt{7}}{4}}{-\frac{3}{4}}=-\frac{4}{3}-2\left(-\frac{\sqrt{7}}{3}\right)$$

$$=-\frac{4}{3}+\frac{2\sqrt{7}}{3}=\frac{2\cdot(\sqrt{7}-2)}{3}$$