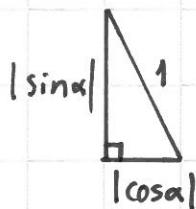
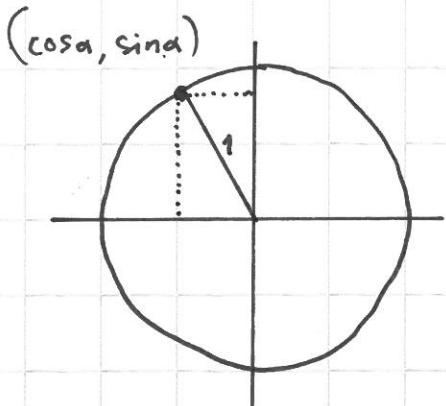


TRIGONOMETRIAN PERUSIKAAVA



$$|\sin \alpha|^2 + |\cos \alpha|^2 = 1^2$$

$$\boxed{\sin^2 \alpha + \cos^2 \alpha = 1}$$

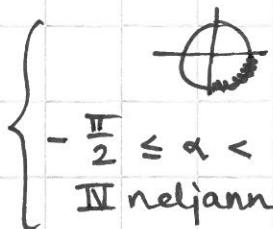
$$(\sin \alpha)^2 + (\cos \alpha)^2 = 1$$

ESIM Määritä $\sin \alpha$, kun $\cos \alpha = \frac{3}{5}$ ja $-\frac{\pi}{2} \leq \alpha \leq 0$

$$\sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow \sin^2 \alpha = 1 - \cos^2 \alpha$$

$$\sin^2 \alpha = 1 - \frac{9}{25} = \frac{16}{25}$$

$$|\sin \alpha| = \frac{4}{5}$$



$$\sin \alpha = -\frac{4}{5}$$

||✓

*Kaksinkertaisen Kulman muuntaminen

$$\boxed{\sin 2x = 2 \sin x \cos x}$$

$$\boxed{\cos 2\alpha = \cos^2 \alpha - \sin^2 \alpha}$$

$$= 2 \cos^2 \alpha - 1$$

$$= 1 - 2 \sin^2 \alpha$$

ESIM 2 + 3

Sarja 1

4.1 - 4.6

Sarja 2

4.11

