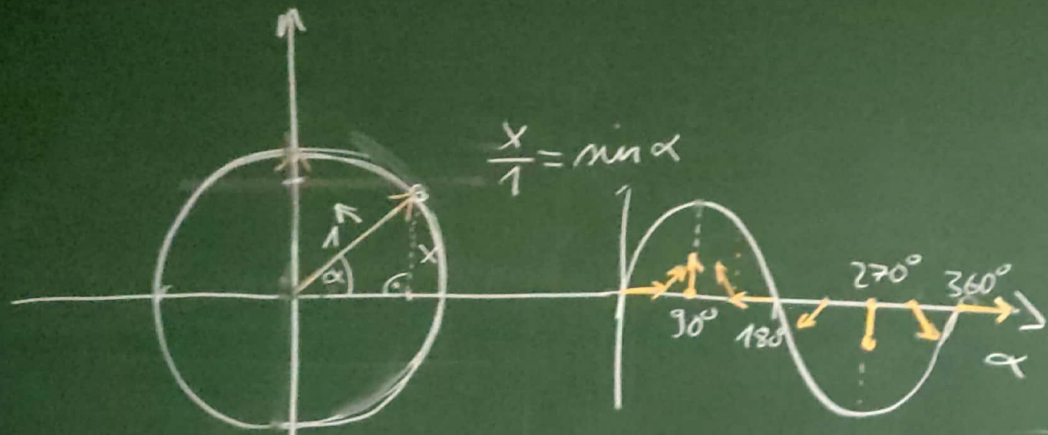


Wellenlängenbestimmung mit Laser und Gitter

$\lambda \quad \lambda \quad \lambda$



Einheitskreis

Einheitskreis

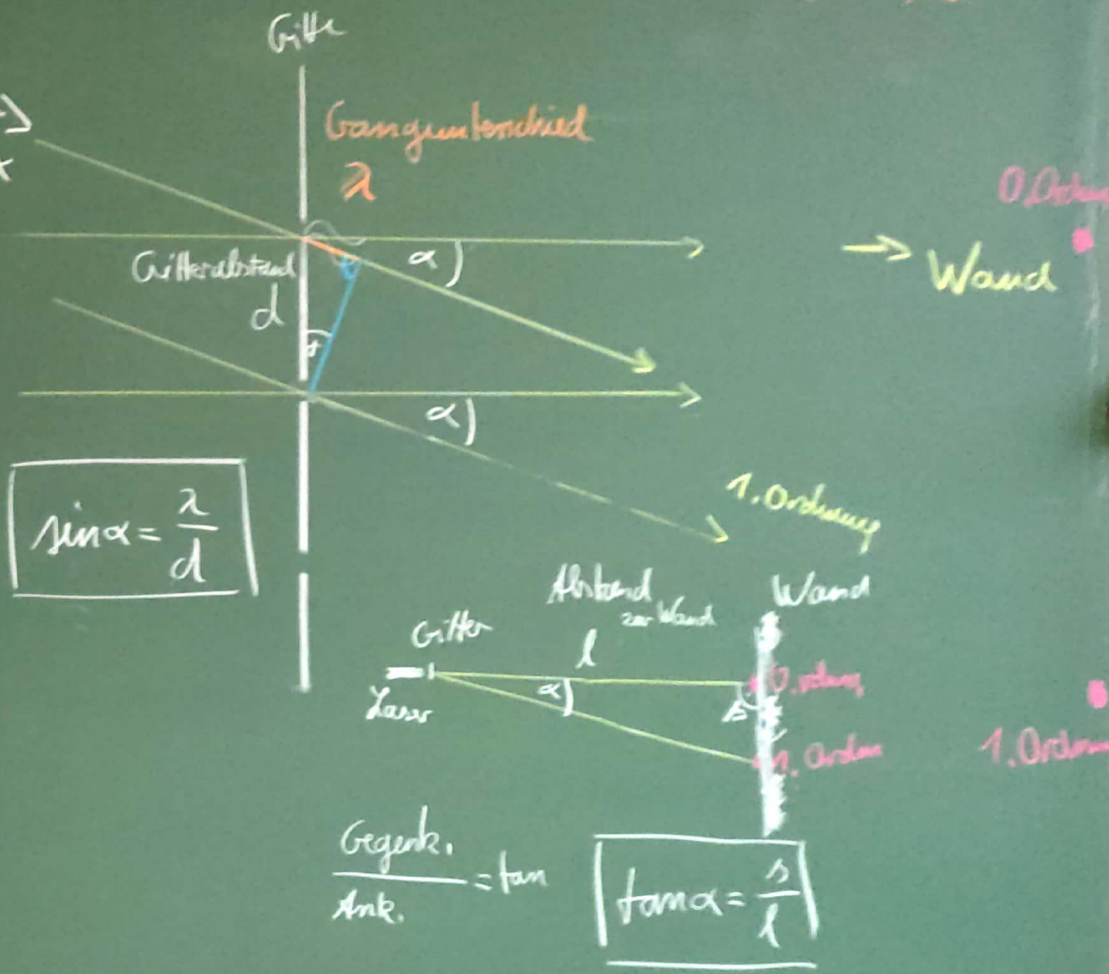
$$\sin \alpha = \frac{\lambda}{d}$$

$l = 1,57 \text{ m}$ $d = \frac{1}{570} \text{ mm}$

$\alpha = \tan^{-1} \frac{\lambda}{l}$

$\lambda = d \cdot \sin \alpha$

- dm $\lambda = 0,37 \text{ m}$
- H $\lambda = 0,476 \text{ m}$
- bl $\lambda = 0,281 \text{ m}$



Gegenk. / Ank. = tan $\left[\tan \alpha = \frac{l}{\text{Abstand zur Wand}} \right]$