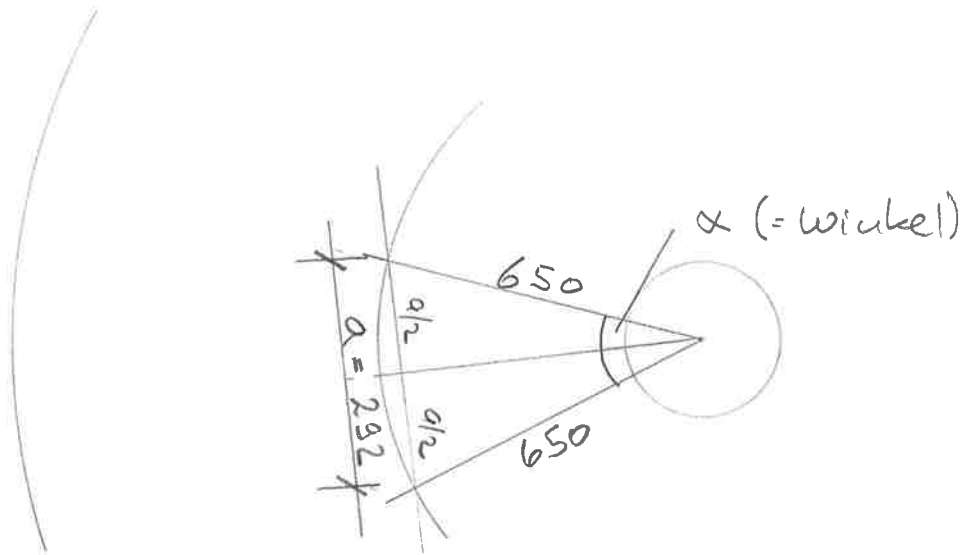


## Berechnung/Skizzen



$$\sin \alpha/2 = \frac{a/2}{650} = \frac{146}{650} = 0,2246$$

$$\Rightarrow \alpha/2 = 12,98^\circ$$

$$\alpha = 25,9605^\circ$$

Umdrehungswinkel:

$$15 \times 25,96^\circ = \underline{\underline{389,4^\circ}}$$

Musterlösung