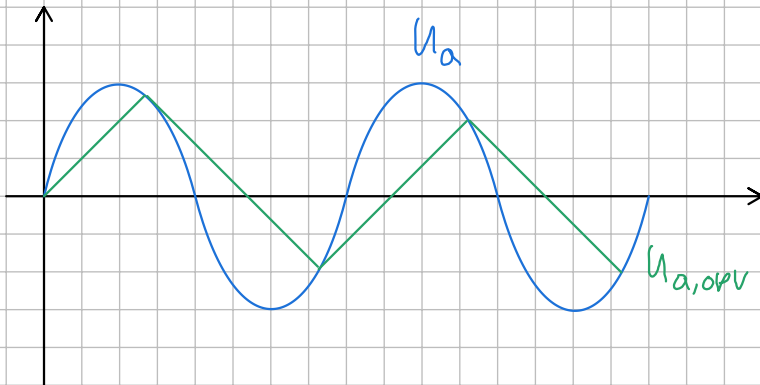


a)  $SR = \frac{dU_a}{dt} = \hat{U}_a \cdot \frac{d\sin(\omega t)}{dt} \Big|_{\max} \rightarrow \hat{U}_a \cdot \omega \cdot \cos(\omega t) \Big|_{\max} \rightarrow @ t=0$

$SR = \hat{U}_a \cdot \omega_{\max}$

$f_{\max} = \frac{SR}{\hat{U}_a \cdot 2\pi}$

b)



$U_{a,OPV}$  mit konst Steigung  $|SR|$  !