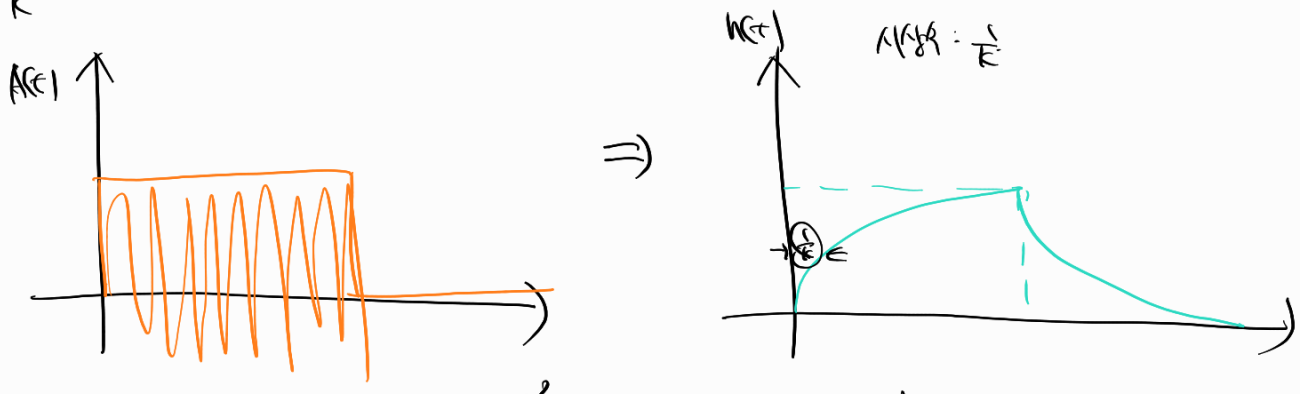
$Q = \frac{\omega}{K} = \omega\tau$ → Q는 cavity에서 photon이 에너지를 잃기까지 걸리는 시간

$\frac{1}{K}$: the up / the down



transmission $\chi \simeq -\frac{g^2 \delta_E}{\Delta(\Delta - \delta_E)} \simeq -\frac{g^2 \delta_E}{\Delta^2}$

$H = \frac{\Omega_{eff}}{2}\sigma_z + \frac{\Omega_{x,eff}}{2}\sigma_x + \frac{\Omega_{y,eff}}{2}\sigma_y$

rotate.