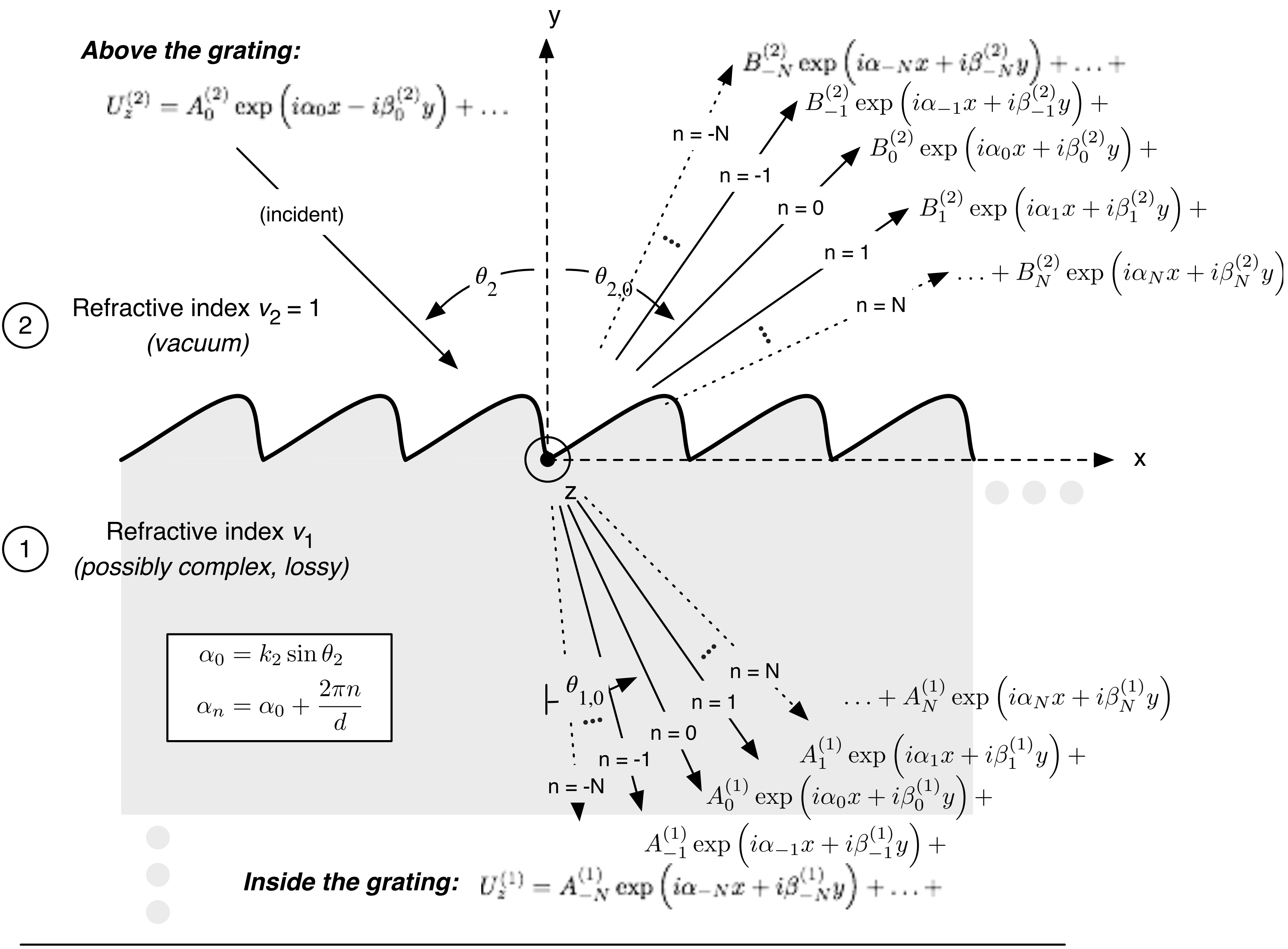
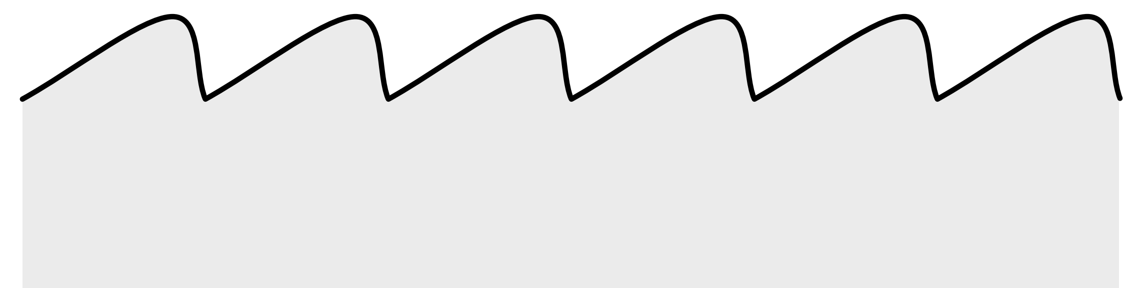
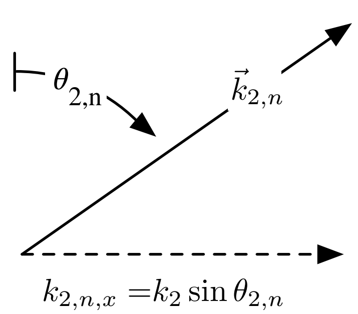
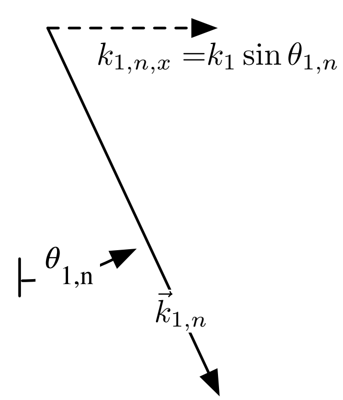






Reflected wavevectors $\vec{k}_{2,n}$



Transmitted wavevectors $\vec{k}_{1,n}$

$$k_{2,n,x} = \alpha_n$$
$$k_2 \sin\theta_{2,n} = \alpha_n$$
$$k2 \sin\theta_{2,n} = \alpha_0 + \frac{2\pi n}{d}$$
$$k_2 \sin\theta_{2,n} = k_2 \sin\theta_2 + \frac{2\pi n}{d}$$
$$\sin\theta_{2,n} - \sin\theta_2 = \frac{2\pi n}{d\, k_2}$$
$$\sin\theta_{2,n} - \sin\theta_2 = \frac{n}{d}\frac{2\pi c}{\omega v_2}$$
$$\sin\theta_{2,n} - \sin\theta_2 = \frac{n\lambda_0}{d\, v_2}$$
$$\sin\theta_{2,n} - \sin\theta_2 = \frac{n\lambda_2}{d}$$