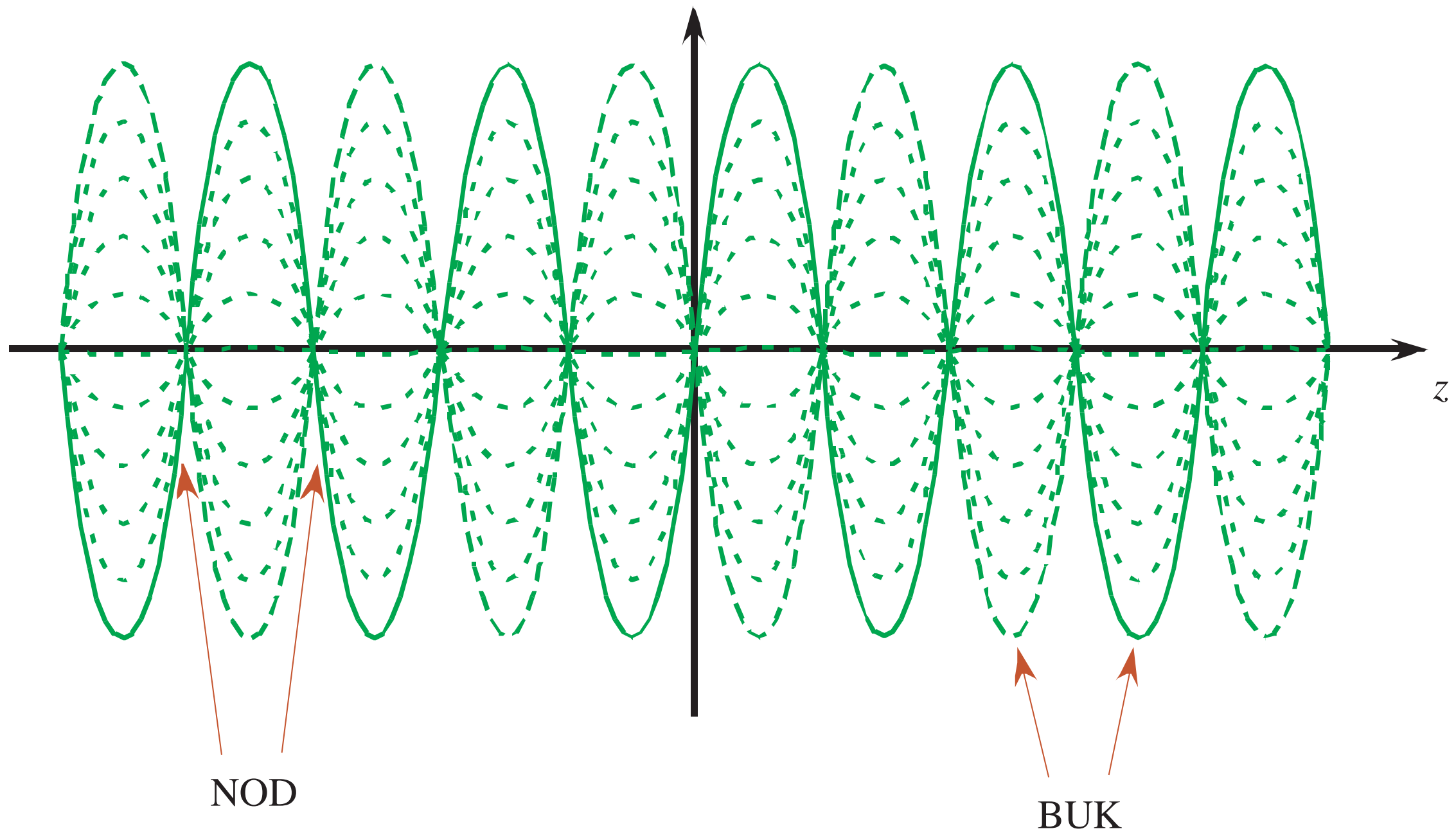


Superposition

Stående våg, noder och bukar

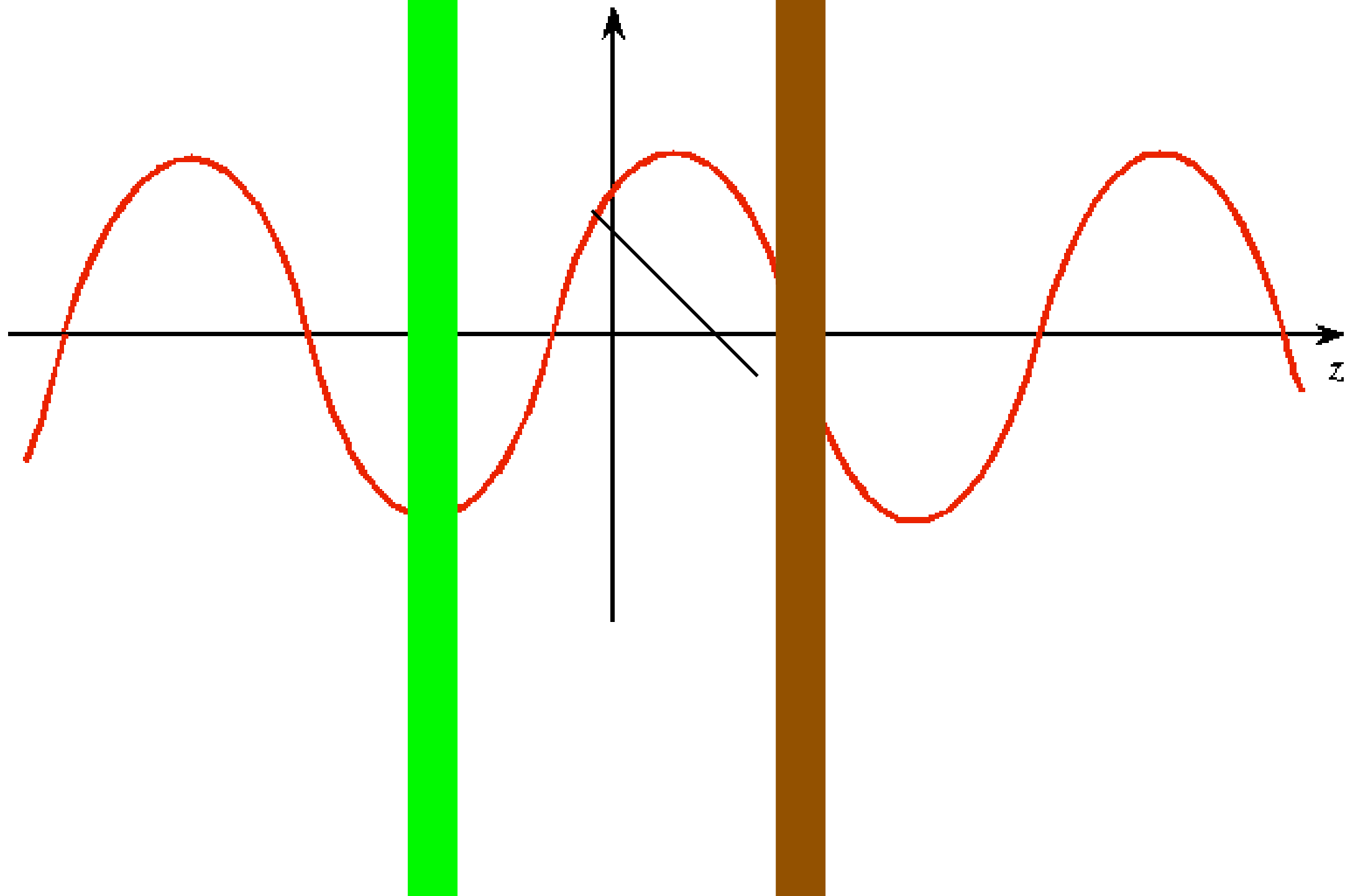
$$E_{\text{tot}}(z,t) = E_1(z,t) + E_2(z,t) = 2E_0 \sin(kz) \cos(\omega t)$$



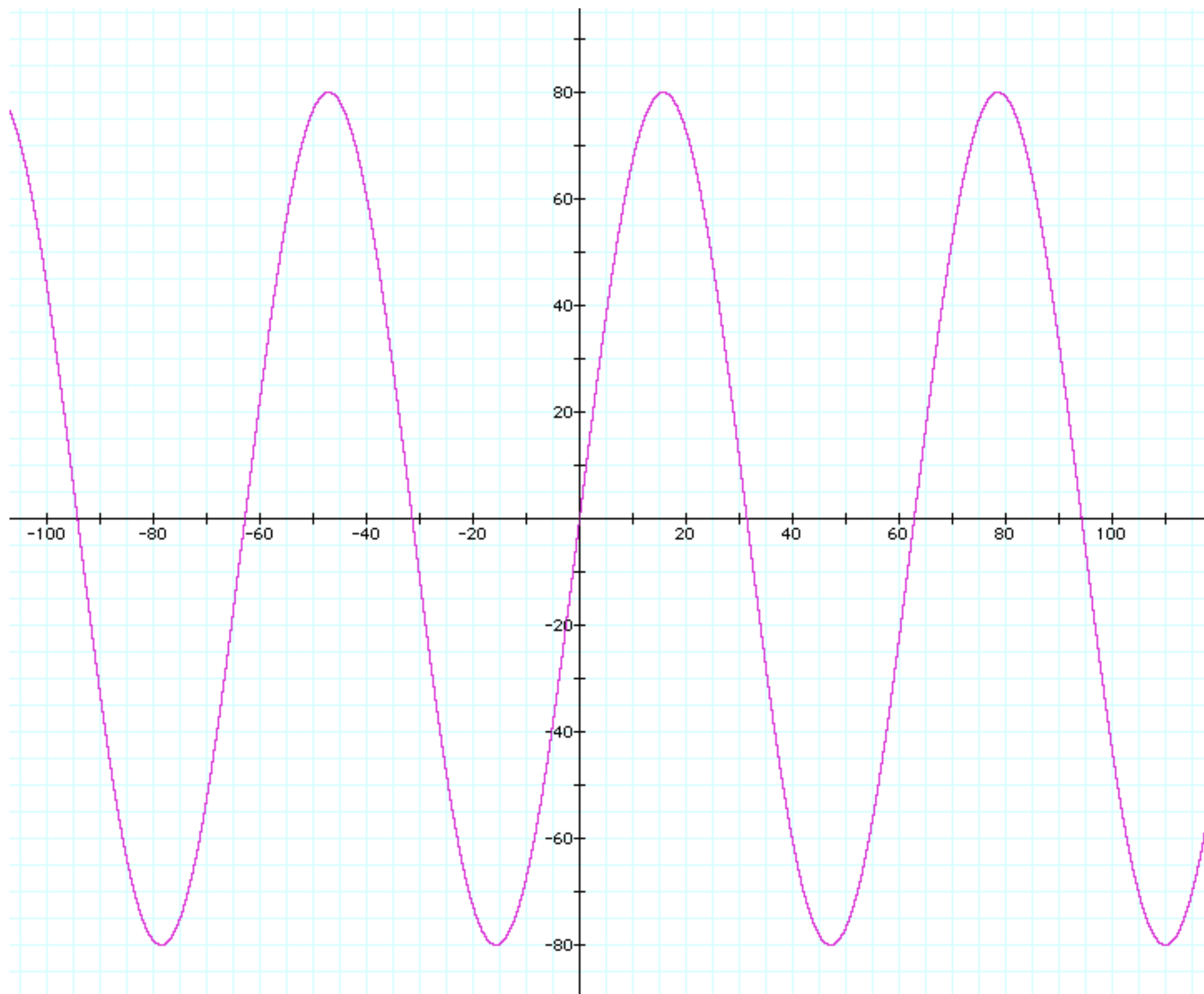
Stående våg

$$E_1(x) = E_0 \cdot \sin(kz - \omega t)$$

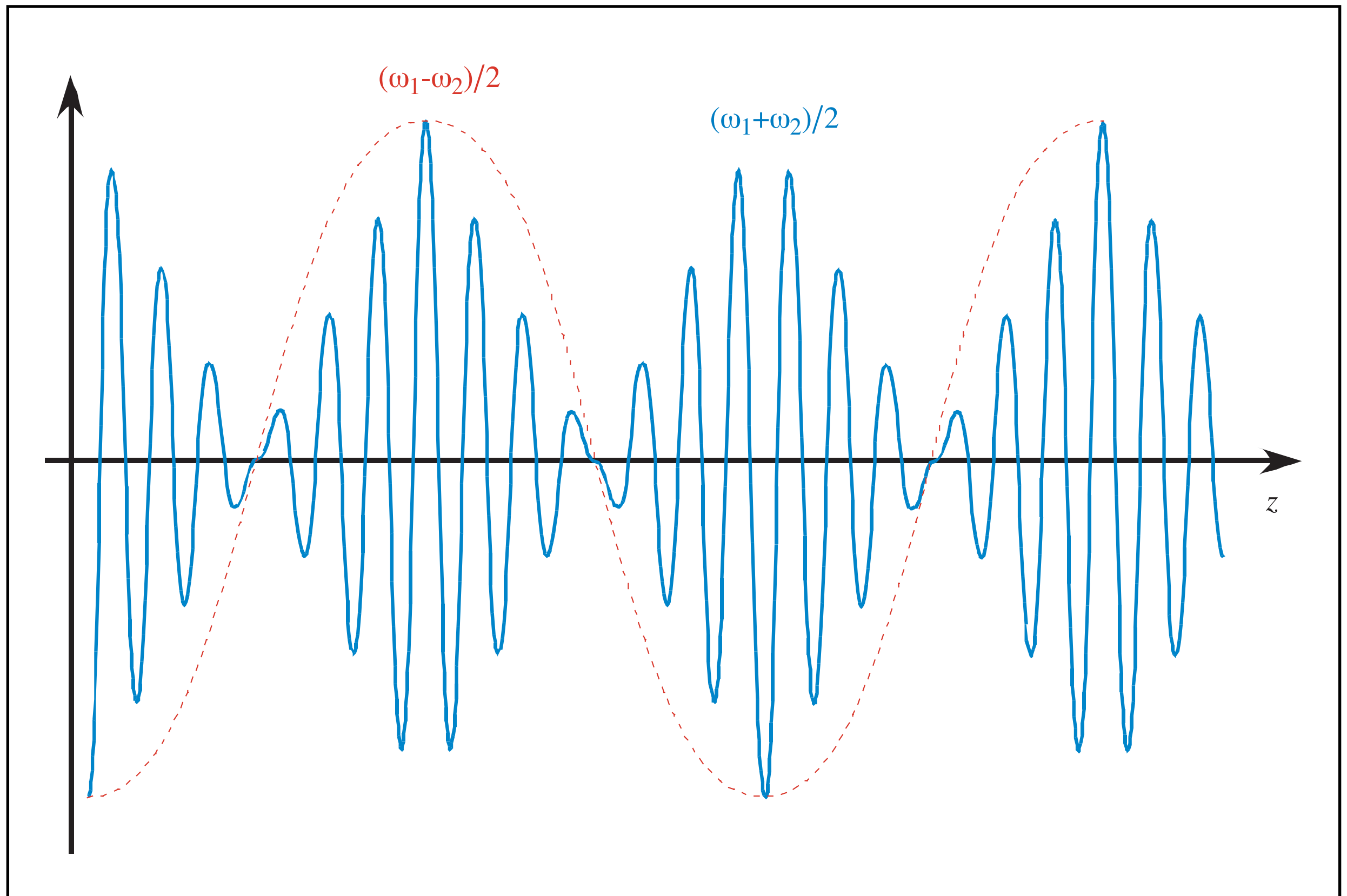
$$E_2(x) = E_0 \cdot \sin(kz + \omega t)$$



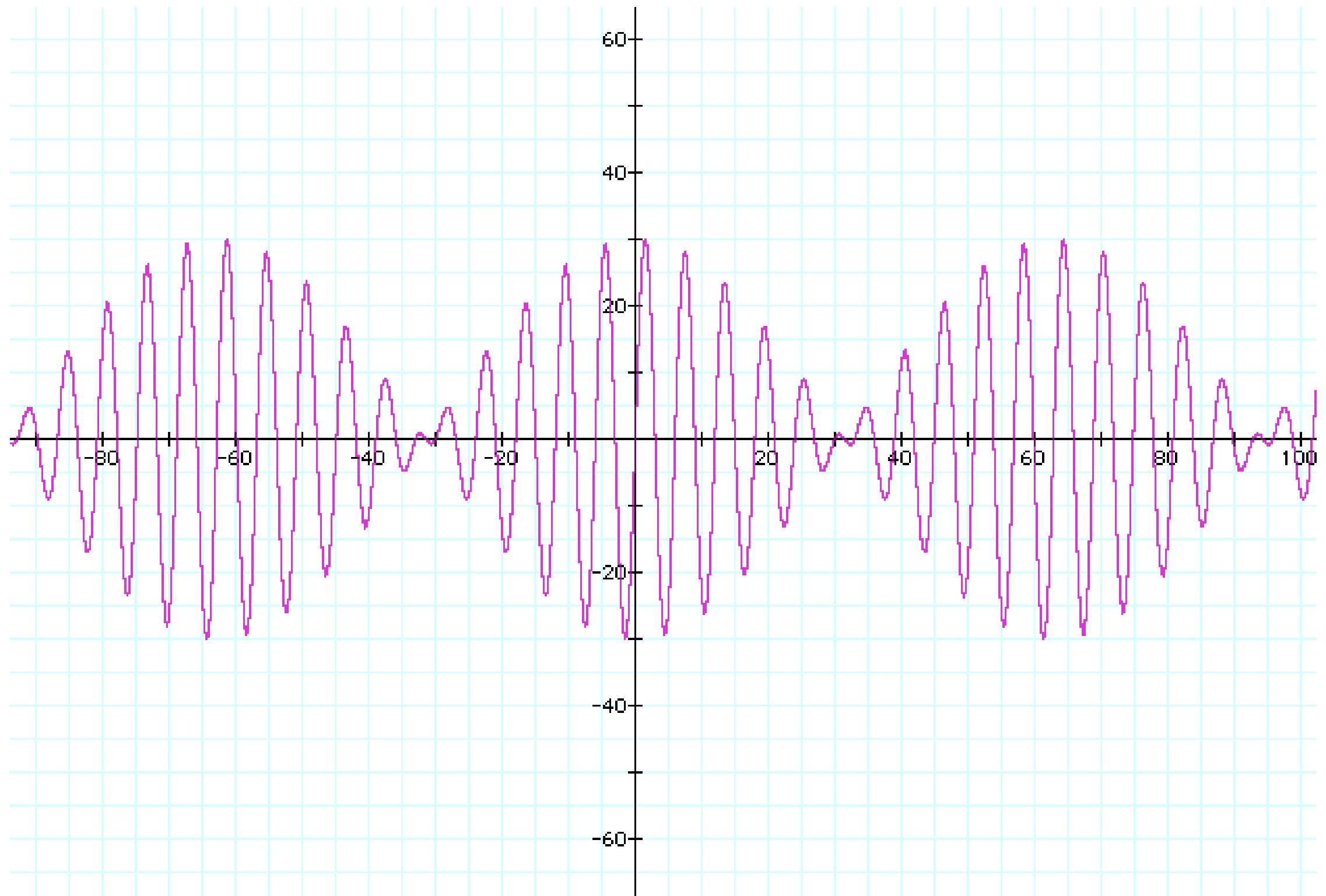
Stående våg



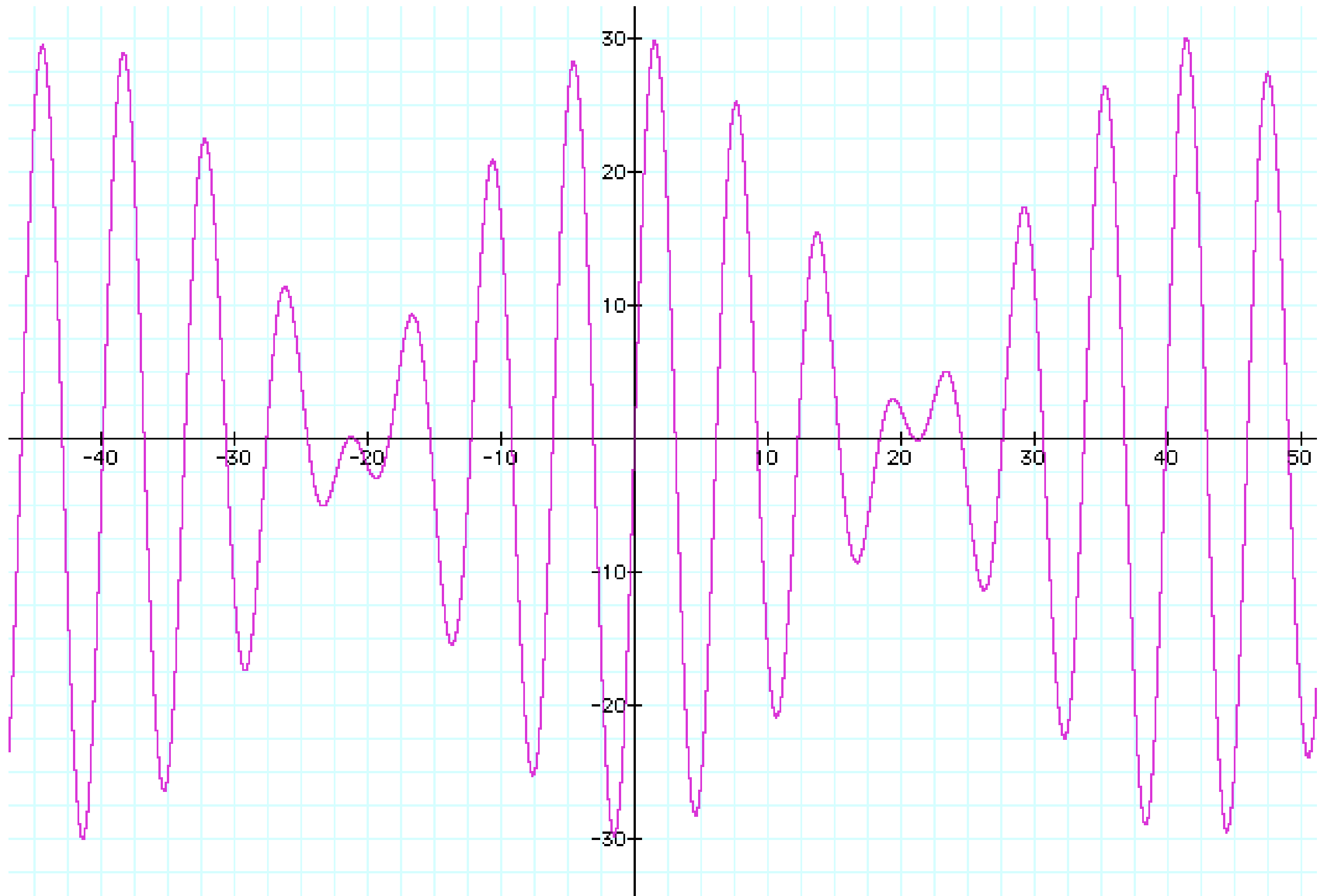
Svävningar



Utbredning i vakuum



Normal dispersion



Anomal dispersion

