

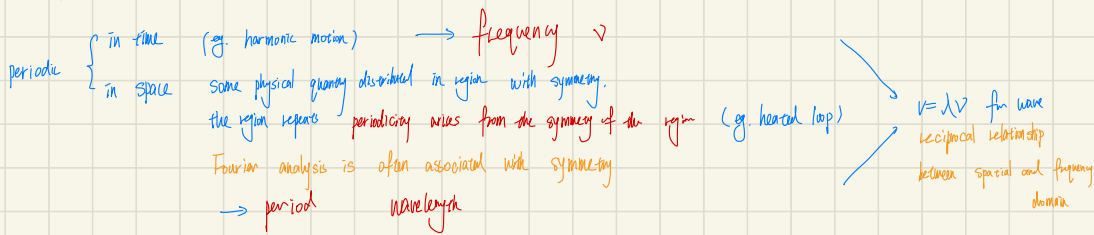


Fourier Series: identified with mathematical analysis of periodic phenomenon

Fourier Transform: "limiting case of F.S.". concerned with analysis of non-periodic phenomenon



• Periodic phenomenon & F.S.



$$\sin(t+2\pi) = \sin t$$

$$\cos(t+2\pi) = \cos t$$

$\rightarrow$ periodicity comes from the symmetry of the unit circle