



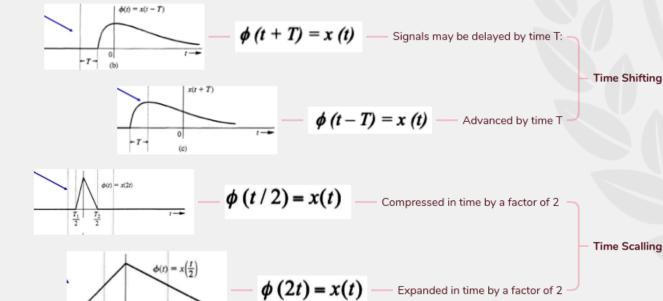
Signals Classification

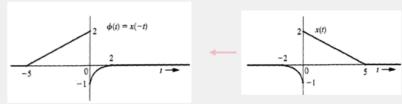
Useful Segnal Operatioins

Deterministic and probabilistic signals Causal and non-causal Even and Odd signals Continuous or Discrete time signals
Analog or Digital signals
Periodic or Aperiodic signals
Energy and power signals

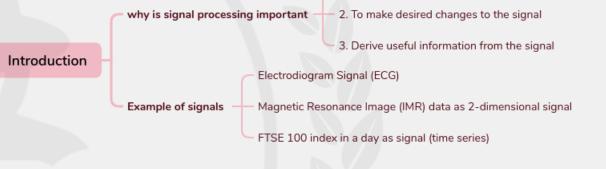
$$T = \frac{1}{f} = \frac{2\pi}{\omega}$$
 — $x(t) = x(t + T_0)$ for all t — Signal is periodic if —

$$x(t) = \underbrace{\frac{x(t) + x(-t)}{2}}_{\text{con}} + \underbrace{\frac{x(t) - x(-t)}{2}}_{\text{odd}} - x(\tilde{t}) = x_e(t) + x_o(t) - \text{even and odd signals}$$

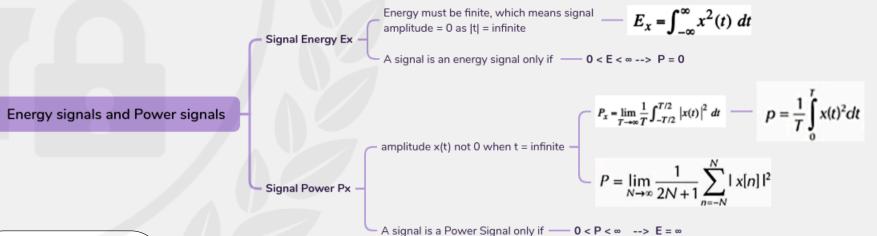




 $\phi(t) = x(-t)$ ____ Time Reversal Reflected about the vertical axis (Time Reversed)



1. To reduce in an electrical signals



@abdulmasoodwarlock

