

# ELL205 Signals and Systems

## Tutorial 3, 14 August - 18 August 2023

- 1) Problems 1.34,1.37,1.38,1.40-44 of the textbook.
  - 2) Parts of 1.27-1.30 not covered earlier.
- In many problems, making a sketch can give you a lead to the answer.
  - $\phi(t) = \int_{-\infty}^{\infty} x(t + \tau)y(\tau)d\tau$  is referred to as the correlation function. Note its resemblance to the familiar inner product. When  $y(t) = x(t)$ , it is referred to as the autocorrelation. What is its physical significance?