

## Chapter 11.03

### Fourier Transform Pair: Frequency and Time Domain

#### OBJECTIVES

1. expressing the Fourier approximations in time and frequency domains.
2. understanding how to represent a complex number in polar coordinates,
3. representing the ([complex numbers](#)) Fourier coefficients by its amplitude and phase angle.
4. understanding the derived pair of formulas for Fourier transform, and inverse Fourier transform