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## 1. Introduction to Fourier series

### Objectives

- Find the smallest **period** of any periodic function.
- Find the **Fourier coefficients** of a periodic function of period  $2\pi$ .
- Determine the **Fourier series** of the **square wave**.
- Simplify Fourier series computations of **even and odd periodic functions** by identifying which coefficients must be zero automatically.

### 1. Introduction to Fourier series

**Topic:** Unit 1: Fourier Series / 1. Introduction to Fourier series

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💬 [Linear transformation perspective of companion matrix constructions](#)

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[Can someone give or indicate resources for linear transformation perspective of the technique used in previous courses. I was thinking that I would gain at the end but I do n...](#)

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