

## FOURIER ANALYSIS & METHODS GOALS FOR 2020.03.03

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### 1. LEARNING OBJECTIVES

Our goals for today are:

- (1) You will be able to create best approximations by polynomials in general.
- (2) You will be able to create best approximations using Legendre polynomials in intervals of the form  $(-a, a)$ , for  $a > 0$ .

Ready, set, let's go!