FOURIER ANALYSIS & METHODS GOALS FOR 2020.02.21

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1. Learning objectives

Our goals for today are that:

- (1) You will be able to explain at least one key step in the proof of the Sampling Theorem.
- (2) You will be able to solve the homogeneous heat equation on a half line.
- (3) You will be able to compute a discrete Fourier transform by hand (if you really want to...).

Ready, set, let's go!