FOURIER ANALYSIS & METHODS GOALS FOR 2020.02.26

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1. Learning objectives

Our goals for today are:
 (1) You will be able to invert the Laplace transform.
 (2) You will be able to solve the following problem:

$$u_t - u_{xx} = 0, \quad t, x > 0, \quad u(0, t) = f(t), \quad u(x.0) = 0.$$

Ready, set, let's go!