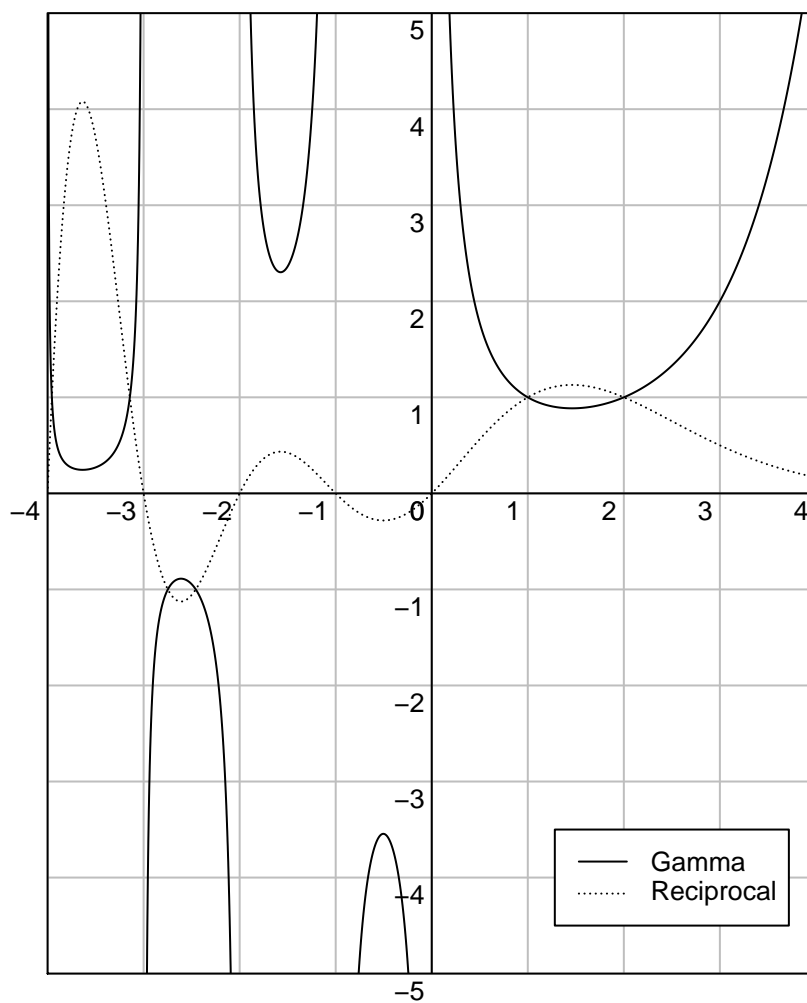


The following figure is redrawn from a famous book of mathematical tables (Abramowitz and Stegun, *The Handbook of Mathematical Functions*). Your task in this assignment is to draw this figure exactly as it is presented here.

The Gamma Function and Its Reciprocal



You should make the plot rectangle 4 inches wide and 5 inches high and use a 10 point font.

Hints

1. The gamma function is a built in function in R (`gamma(x)`).
2. The gamma function is undefined at the negative integers.
3. You will probably need to use the R functions: `plot.new`, `plot.window`, `par`, `abline`, `gamma`, `lines`, `text` and `legend`.
4. You will need to do a lot of customisation in order to get all the features of the graph looking right.