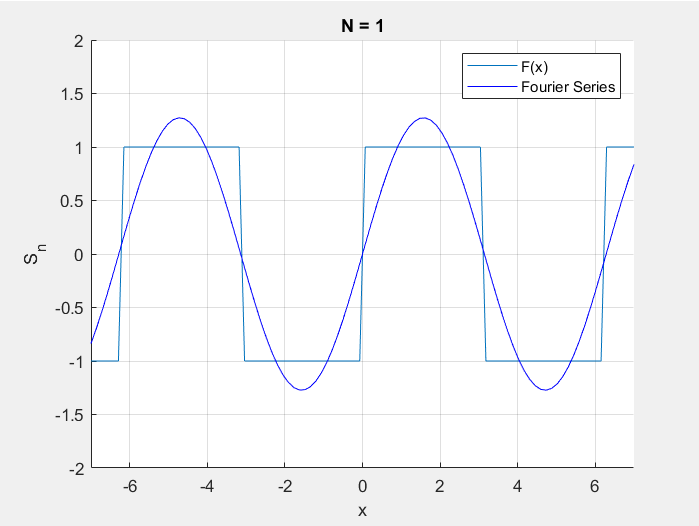
# Q4

1. Fourier Series Function

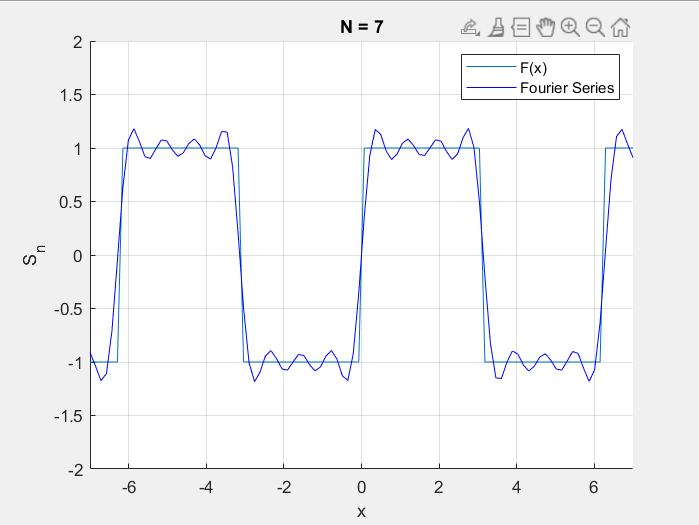
N = 1





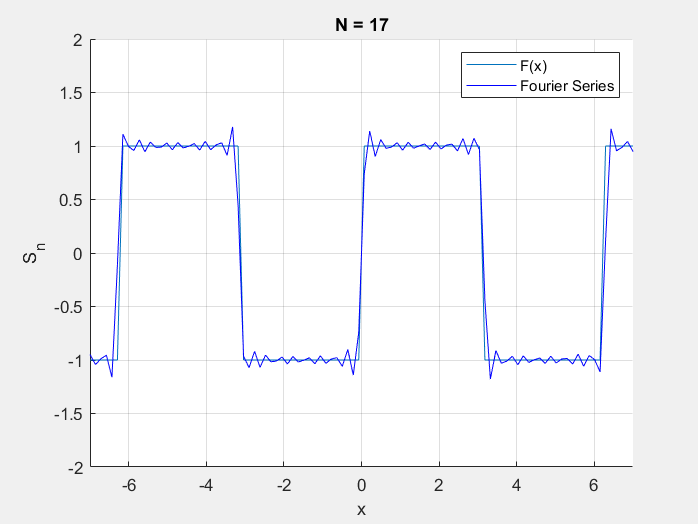
N = 7





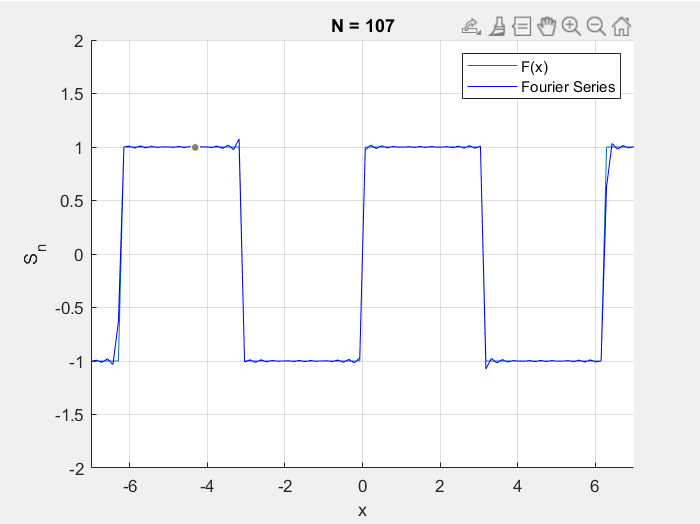
N = 17





N = 107

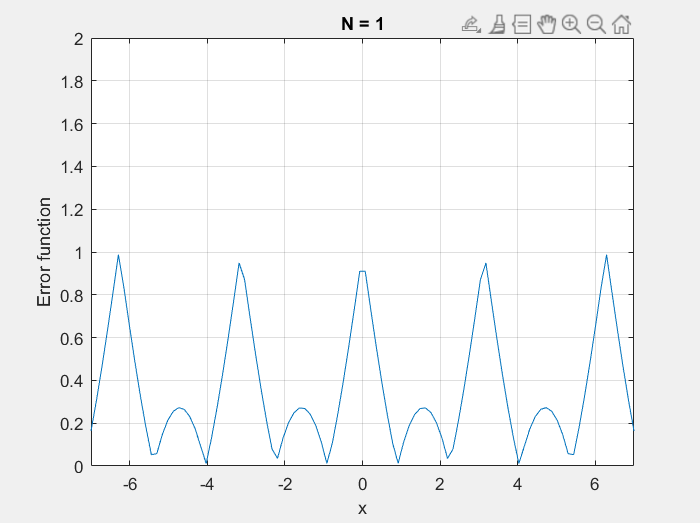




2. Approximate Error Function

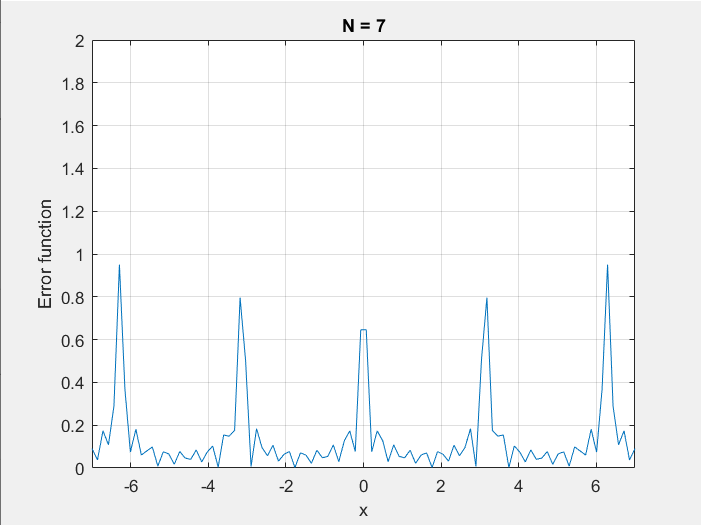
N = 1





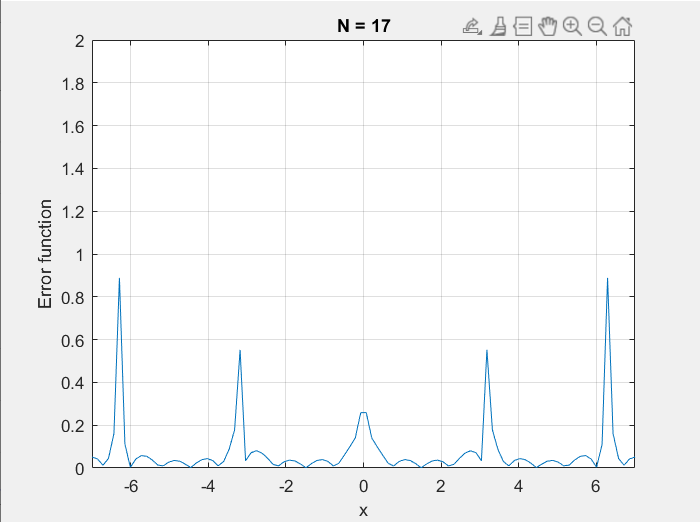
N = 7





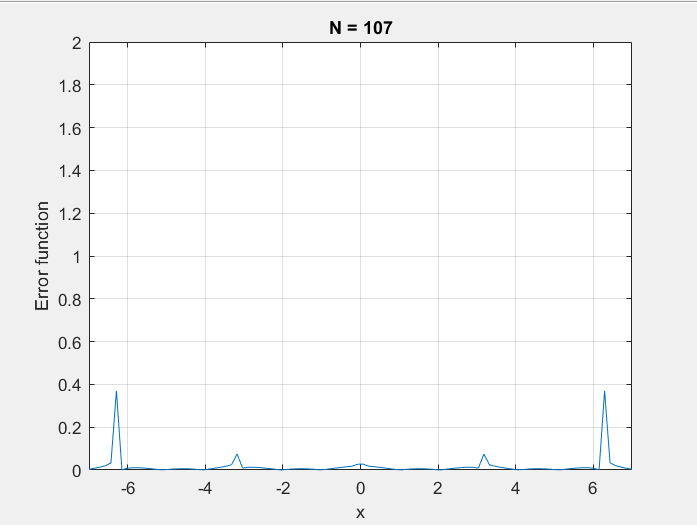
N = 17





N = 107





3. Approximate Error Value

N = 1





N = 7





N = 17





N = 107





4. The least N for e\_val <= 0.07



