Prelin Summer 2017, QZ 5894 3710 0798 9034

Part 5

$$IN-I = 2\pi \sum_{m=1}^{\infty} a_{mN}^{+1}$$

where
$$a_{mN} = a_{k} = \frac{1}{\pi} \int_{0}^{2\pi} (e^{\cos(x)})(\cos(kx)) dx$$

- See attached Natlab code QZ\_Part\_5, m
- See attached excel greathest Prelim\_Summ\_2017\_QZ\_xlsx

with N=3 m=1,2,3,...,10

and N=4 m=1,2,3,...,10

Includes plots of trapezoidal error vs. m