Applied Algebra HW 2

- 1. Use Euler's formula $e^{it}=\cos t+i\sin t$ to express $\sin 3t$ in terms of $\sin t$ and $\cos t$.
- 2. Use Euler's formula and the identity $e^{a+ib}=e^ae^{ib}$ to compute the integral $\int_0^\pi e^x \sin 3x dx$.