

Practice Problems for Lecture 3

Name:

1. Express the complex number $2 - i$ in polar form $re^{i\theta}$ for real numbers r, θ .
2. Express the complex number $2e^{(\pi/4)i}$ in the form $a + bi$ for real numbers a, b .
3. Compute the integral $\int_0^1 (5 + 3i)e^{8\pi it} dt$