

Math 526
Grady Wright

Homework 4

Due Sep. 26, 2007

1. Book problems:

2.2: 1d, 5a, 9

2.4: 6, 11

2. Let Log denote the principal branch of the log (i.e. $\text{Log } z = \log r + i\theta$, where \log is the regular natural log of a real number and $0 \leq \theta \leq 2\pi$). Under what conditions is it true that $\text{Log}(z_1 z_2) = \text{Log } z_1 + \text{Log } z_2$?