

Homework assigned Monday, January 30.

Add this to the problems from Friday. If we define $\tan(z)$ be

$$\tan(z) = \frac{\sin(z)}{\cos(z)} = \frac{e^{iz} - e^{-iz}}{i(e^{iz} + e^{-iz})}$$

then compute the following

- (1) $\tan(\pi/4)$.
- (2) $\tan(yi)$.
- (3) All solutions to $\tan(z) = w$.