## Complex Analysis, HW \# 5

$\underline{\text { Section } 15, \text { problems } 2,3,5 \mathrm{a}), 5 \mathrm{~b}), 5 \mathrm{c}), 8 \text {, and this problem: }}$

## Problem 1.

TRUE or FALSE: There is no entire function $f$ such that $f(n)=n$ ! for each $n \in \mathbb{N}$.
Prove or give a counterexample.

