

Name: _____

QUIZ 15 

MATH 300
October 24, 2024

1. Use induction to prove: If $n \in \mathbb{N}$, then $\frac{1}{2!} + \frac{2}{3!} + \frac{3}{4!} + \cdots + \frac{n}{(n+1)!} = 1 - \frac{1}{(n+1)!}$.