

Your Name: _____

Your Partner: _____

Quiz 5

Math 253

You have 20 minutes to complete this quiz. When you're finished, first check your work if there is time remaining, then turn it in. You may use a scientific calculator, but not a graphing one, and not any internet-connected device. You may work with one other student. **Enough work should be shown that there is no question about the mathematical process used to obtain your answers.**

1. (8 points) Does the series $\sum_{m=1}^{\infty} \frac{(-2)^m}{m^m}$ converge?

2. (8 points) Does the series $\sum_{n=0}^{\infty} \frac{(n+1)!}{(2n)!}$ converge?