

- Total points: 15 quiz points.
- Show *complete work*—that is, all the steps needed to completely justify your answer.
- *Simplify* your answers as much as possible.
- If you need extra space, work on the back and make a note on the front.

Here is a power series: $\sum_{n=1}^{\infty} \frac{(x+3)^n}{n!}$.

What is the center of the power series? _____

What is the radius of convergence? _____

What is the interval of convergence? _____

Do you recognize this series? If so, write a formula for its sum. _____