1. (3 points). Define what it means for the series $\sum_{n=0}^{\infty} a_n$ to converge.

2. (1 point). To converge absolutely.

3. (1 point). Sum the following series (or explain why it doesn’t converge).

$$\sum_{n=0}^{\infty} \left(\frac{-1}{5}\right)^n$$