Provide a clear and organized presentation. Determine if each of the following series converge or diverge:

1. $\displaystyle\sum_{n=1}^{\infty}\frac{(-1)^{n}}{\ln(n^{3}+n)}$

2. $\displaystyle\sum_{n=1}^{\infty}\frac{(-1)^{n}(2n^{2}+3)(3n)!}{(3n)^{3n}}$