Name: Section: 7   8

Determine if the following series converge absolutely, converge conditionally, or diverge. Clearly state which tests you are using, give full reasoning.

1. $\displaystyle\sum_{n=1}^{\infty} \frac{2^n}{n!}$

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