Decide whether the following series converge conditionally, converge absolutely, or diverge.

1. $\sum_{n=4}^{\infty}(-1)^{n+1} \frac{n}{n^{2}-1}$
2. $\sum_{j=0}^{\infty}(-1)^{j} \frac{e^{j}}{j!}$
3. $\sum_{k=1}^{\infty}(-1)^{k+1} \frac{2 k+2}{k^{2}+2 k}$
