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

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