For each series,
(a) Compute the first 6 values in the sequence of terms of the series
(b) Compute the first 6 values in the sequence of partial sums of the series
(c) Does the sequence of terms converge or diverge?
(d) Do you think the series converges or diverges?

1. $\sum_{k=0}^{\infty} \frac{2 k+1}{7 k+3}$
2. $\sum_{k=0}^{\infty} \frac{1}{k!}$
3. $\sum_{k=0}^{\infty}(-1)^{k} \frac{1}{(2 k+1)!}$
