Series of Real Numbers

Exercises (Solutions)

1.
The series

$$\frac{1}{2}+\frac{2}{5}+\frac{3}{7}+\ldots+\frac{n}{2n+1}+\ldots$$

diverges, since

$$\lim_{n\to+\infty} a_n = \lim_{n\to+\infty}\left(\frac{n}{2n+1}\right)=\frac{1}{2}\neq 0$$

(To be continued.)