HERRANGSKIKKINGS VAN REEKSE

(AANVULLENDE NOTA TOT STEWART §11.6)

'n *Herrangskikking* van die reeks $\sum_{n=1}^{\infty} a_n$ is enige reeks wat verkry word deur elke a_n presies een keer te gebruik en slegs die orde van die terme te verander.

As $\sum_{n=1}^{\infty} a_n$ absoluut konvergent met som s is, dan het enige herrangskikking van $\sum_{n=1}^{\infty} a_n$ dieselfde som s.

As $\sum_{n=1}^{\infty} a_n$ voorwaardelik konvergent is en r is enige reële getal, dan bestaan daar 'n herrangskikking van $\sum_{n=1}^{\infty} a_n$ wat som r het!

REARRANGEMENTS OF SERIES

(ADDITIONAL NOTE TO STEWART §11.6)

A *rearrangement* of the series $\sum_{n=1}^{\infty} a_n$ is any series that is obtained by using each a_n exactly once and only changing the order of the terms.

If $\sum_{n=1}^{\infty} a_n$ is absolutely convergent with sum s, then any rearrangement of $\sum_{n=1}^{\infty} a_n$ has the same sum s.

If $\sum_{n=1}^{\infty} a_n$ is conditionally convergent and r is any real number, then there exists a rearrangement of $\sum_{n=1}^{\infty} a_n$ which has r as its sum!
