lecture 3 presentation

Simon

29/7/2022

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- Geometric series
- 2 Stationaritet

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Section 1

Geometric series

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Geometriske serier review - Eksempler på serier

Eksempel 1:

$$\sum_{n=1}^{n} x^{n} = x + x^{2} + x^{3} + x^{4} + \dots + x^{n-1}$$

Eksempel 2:

$$x + \sqrt{x} + 1 + \frac{1}{\sqrt{x}} + \frac{1}{x}$$
...

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Typer af geometriske serier

Endelig serie

$$\sum_{n=1}^{n} ak^n = a * \frac{1-k^n}{1-k}$$
, $k \neq 1$

Uendelig serie

$$\sum_{n=1}^n \mathsf{a} k^n = rac{\mathsf{a}}{1-k}, \; |k| < 1$$
 $\sum_{n=1}^n \mathsf{a} k^n = \mathsf{n} \mathsf{a}, \; |k| = 1$

Section 2

Stationaritet