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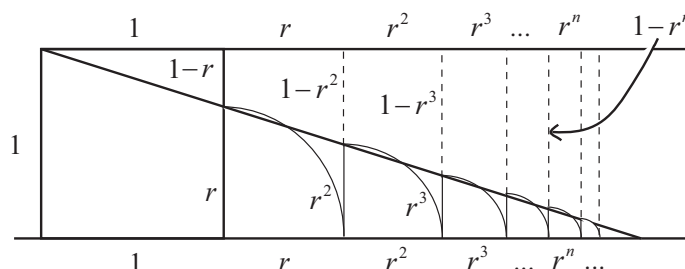
Teaching
Mathematics and
Computer Science

Proof without words: Partial sum and sum of a geometric series

ÁNGEL PLAZA

Let r be a positive real number such that $0 < r < 1$, then:

$$\sum_{k=0}^{n-1} r^k = \frac{1-r^n}{1-r}; \quad \sum_{n=0}^{\infty} r^n = \frac{1}{1-r}$$



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