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Calculator Lesson 19

Series

The lim operation we learned about in Lesson 18 can also be used to find the limit of an infinite series. To find the limit of a series on the calculator we must remember that the limit of the series is the limit of the sequence of partial sums. That is, $\sum_{k=1}^{\infty} a_k = \lim_{n \rightarrow \infty} \sum_{k=1}^n a_k$.

To find $\sum_{k=0}^{\infty} \frac{1}{2^k}$ put $\sum_{k=0}^n \frac{1}{2^k}$ on level 2 of the stack, $n = \infty$ on level 1 and press F2-lim.

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