

10 INFINITE SERIES

10.1 Sequences (LT Section 11.1)

Preliminary Questions

1. What is a_4 for the sequence $a_n = n^2 - n$?

SOLUTION Substituting $n = 4$ in the expression for a_n gives

$$a_4 = 4^2 - 4 = 12$$

2. Which of the following sequences converge to zero?

(a) $\frac{n^2}{n^2 + 1}$

(b) 2^n

(c) $\left(\frac{-1}{2}\right)^n$

SOLUTION

(a) This sequence does not converge to zero:

$$\lim_{n \rightarrow \infty} \frac{n^2}{n^2 + 1} = \lim_{n \rightarrow \infty} \frac{x^2}{x^2 + 1} = \lim_{x \rightarrow \infty} \frac{1}{1 + \frac{1}{x^2}} = \frac{1}{1 + 0} = 1$$

(b) This sequence does not converge to zero: this is a geometric sequence with $r = 2 > 1$; hence, the sequence diverges to ∞ .

(c) Recall that if $\{a_n\}$ converges to 0, then a_n must also converge to zero. Here,

$$\left| \left(-\frac{1}{2}\right)^n \right| = \left(\frac{1}{2}\right)^n$$

which is a geometric sequence with $0 < r < 1$; hence, $\left(\frac{1}{2}\right)^n$ converges to zero. It therefore follows that $\left(-\frac{1}{2}\right)^n$ converges to zero.

3. Let a_n be the n th decimal approximation to $\sqrt{2}$. That is, $a_1 = 1$, $a_2 = 1.4$, $a_3 = 1.41$, and so on. What is $\lim_{n \rightarrow \infty} a_n$?

SOLUTION $\lim_{n \rightarrow \infty} a_n = \sqrt{2}$

4. Which of the following sequences is defined recursively?

(a) $a_n = \sqrt{4 + n}$

(b) $b_n = \sqrt{4 + b_{n-1}}$

SOLUTION

(a) a_n can be computed directly, since it depends on n only and not on preceding terms. Therefore a_n is defined explicitly and not recursively.

(b) b_n is computed in terms of the preceding term b_{n-1} , hence the sequence $\{b_n\}$ is defined recursively.

5. Theorem 5 says that every convergent sequence is bounded. Determine if the following statements are true or false, and if false, give a counterexample:

(a) If $\{a_n\}$ is bounded, then it converges.

(b) If $\{a_n\}$ is not bounded, then it diverges.

(c) If $\{a_n\}$ diverges, then it is not bounded.

SOLUTION

(a) This statement is false. The sequence $a_n = \cos n\pi$ is bounded since $-1 \leq \cos n\pi \leq 1$ for all n , but it does not converge: since $a_n = \cos n\pi = (-1)^n$, the terms assume the two values 1 and -1 alternately, hence they do not approach one value.

(b) By Theorem 5, a converging sequence must be bounded. Therefore, if a sequence is not bounded, it certainly does not converge.

(c) The statement is false. The sequence $a_n = (-1)^n$ is bounded, but it does not approach one limit.

Understanding The Infinite

Ying-Ying Zheng



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