DEPARTMENT OF MATHEMATICS

CO-OPERATIVE ARTS AND SCIENCE COLLEGE, MADAYI

Payangadi R.S. (PO), Kannur, Kerala-670358. E-mail: mathscascmadayi@gmail.com

03.12.2020

Programme Report

Name of the Programme: Workshop on Real Analysis

Date: 3rd December 2020

The department organized an online workshop on Real Analysis through google meet on 3rd December 2020 at 5 pm. The workshop provided participants with an in-depth exploration of the fundamental concepts of sequences and series of real numbers. The session addressed previous years' JAM Mathematics questions in the area sequences of real numbers. Dr. Shijina. V (Assistant Professor, Department of Mathematics, Co-operative Arts & Science College, Madayi) managed the session and discussed some related problems. The session aimed to strengthen participants' problem-solving skills, foster collaboration, and explore various problem-solving techniques in the context. Final Year BSc Mathematics Students of the department actively attended the session.

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WORKSHOP ON REAL ANALYSIS

Resourse Person:

Dr. Shijina.V

Assistant Professor & HOD

Department of Mathematics

CAS College, Madayi

on

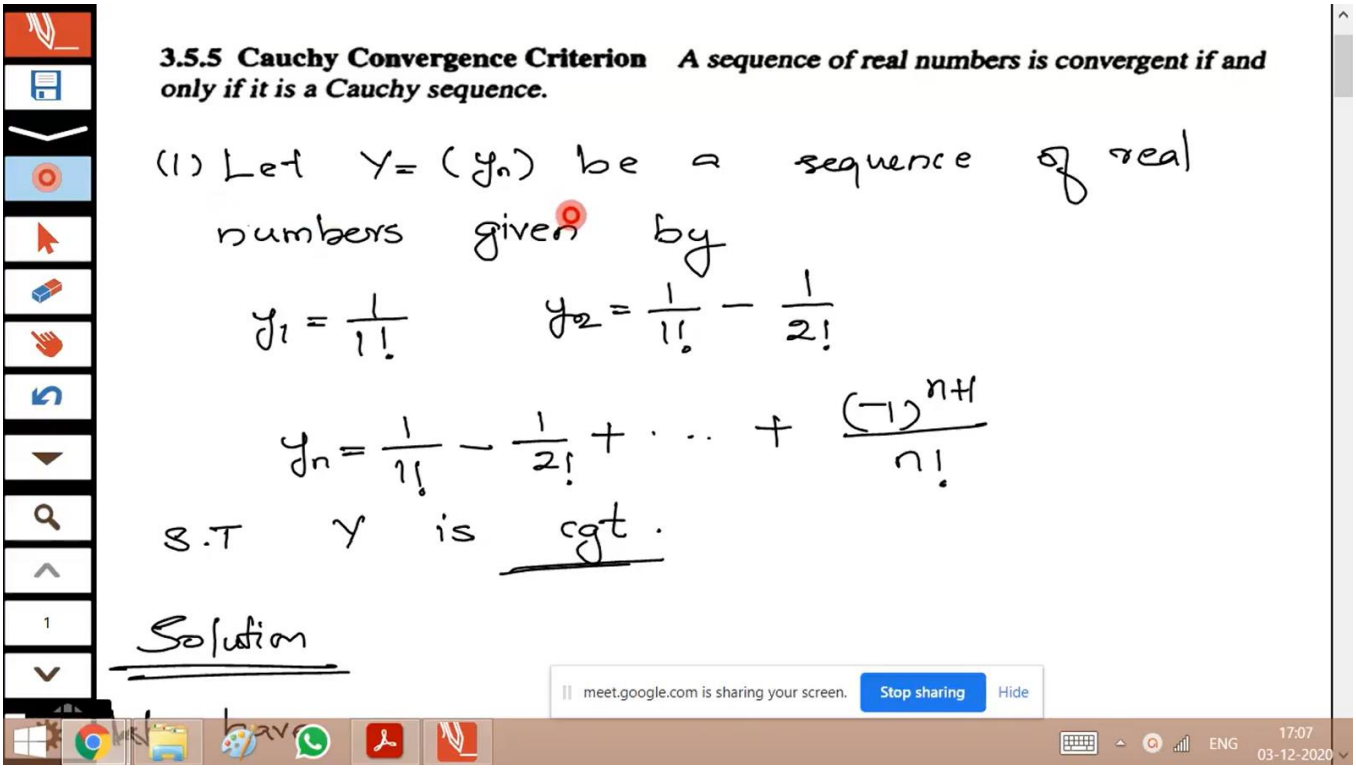
3rd December 2020, 5 pm

via; Google Meet

Faculty Co-ordinators:

Dr.Shijina.V
(Assistant Professor & HOD)

Smt. Sruthi Chundakkaran
(Assistant Professor)


3.5.5 Cauchy Convergence Criterion A sequence of real numbers is convergent if and only if it is a Cauchy sequence.
(1) Let $Y=(y_n)$ be a sequence of real numbers given by
$y_1=\frac{1}{1!}$ $y_2=\frac{1}{1!}-\frac{1}{2!}$
$y_n=\frac{1}{1!}-\frac{1}{2!}+\cdots+\frac{(-1)^{n+1}}{n!}$
S.T Y is cgt.
Solution
meet.google.com is sharing your screen.
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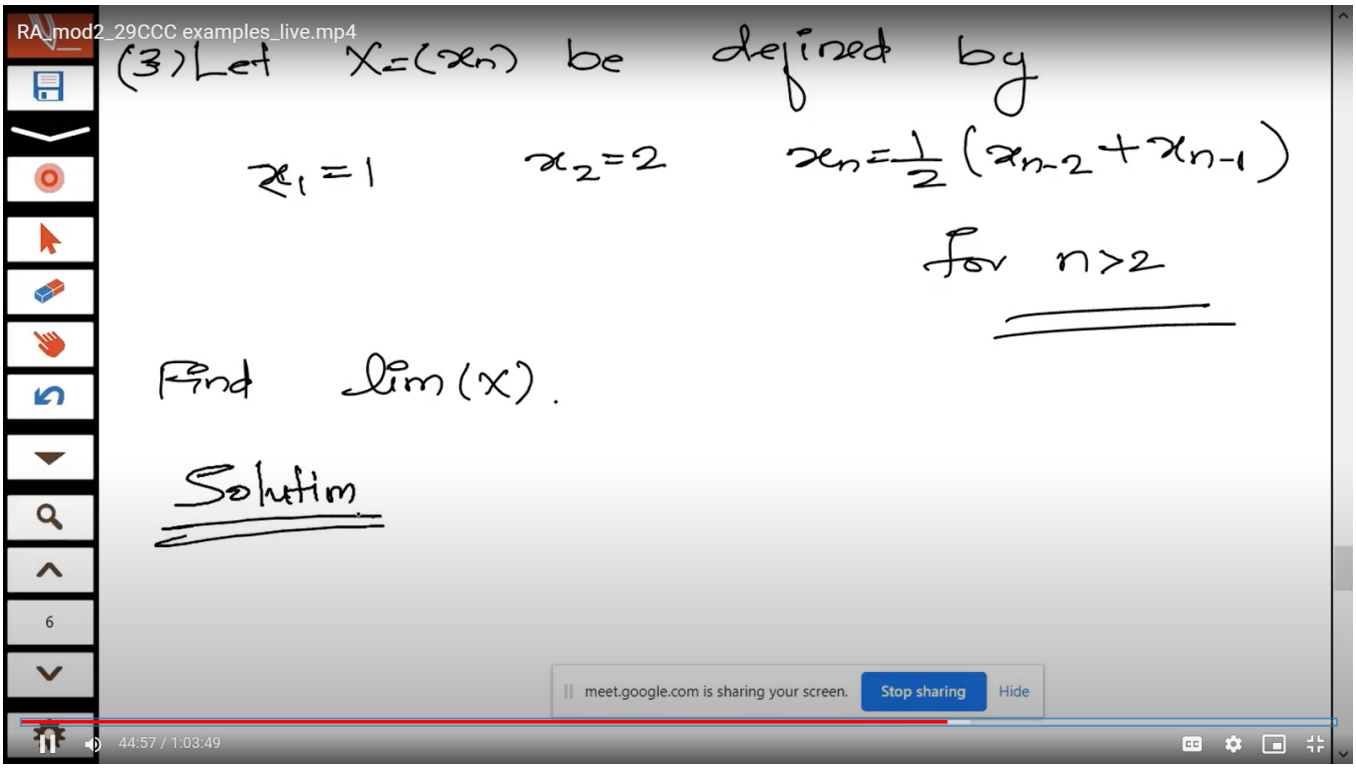
ENG
17:07
03-12-2020


RA_mod2_29CCC examples_live.mp4
(3) Let $X=(x_n)$ be defined by
$x_1=1$ $x_2=2$ $x_n=\frac{1}{2}(x_{n-2}+x_{n-1})$
for $n>2$
Find lim(X).
Solution
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44:57 / 1:03:49

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