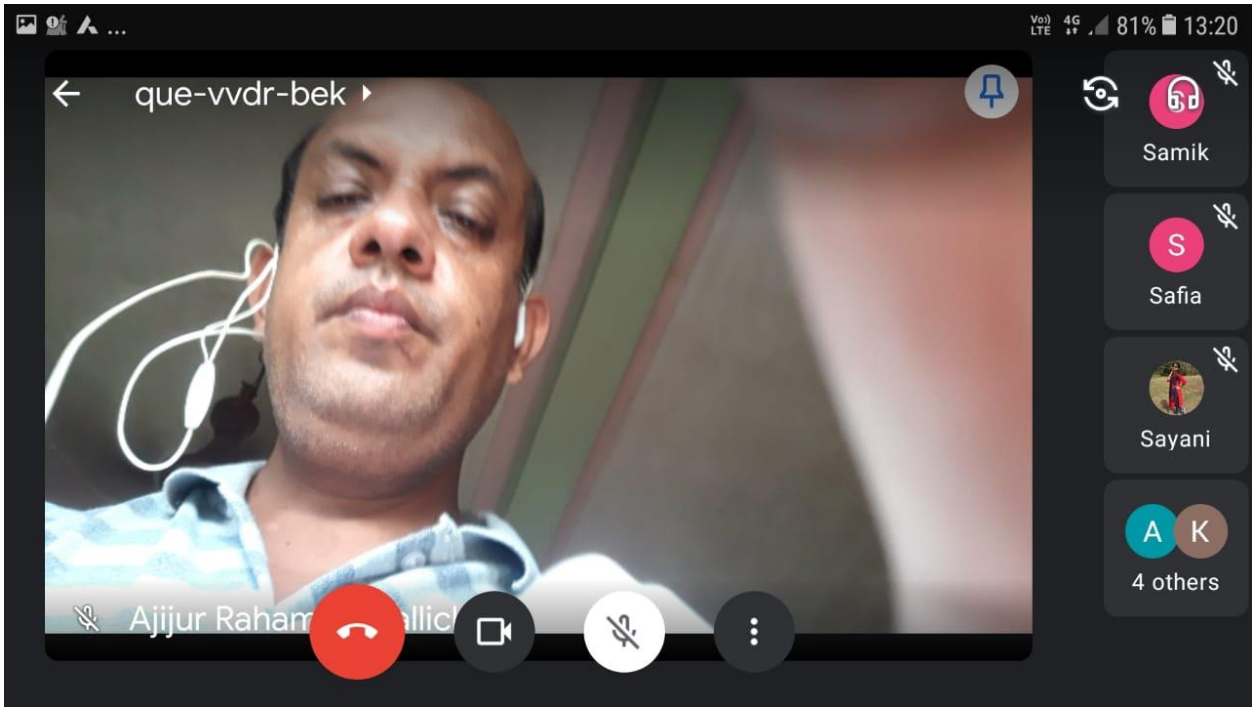
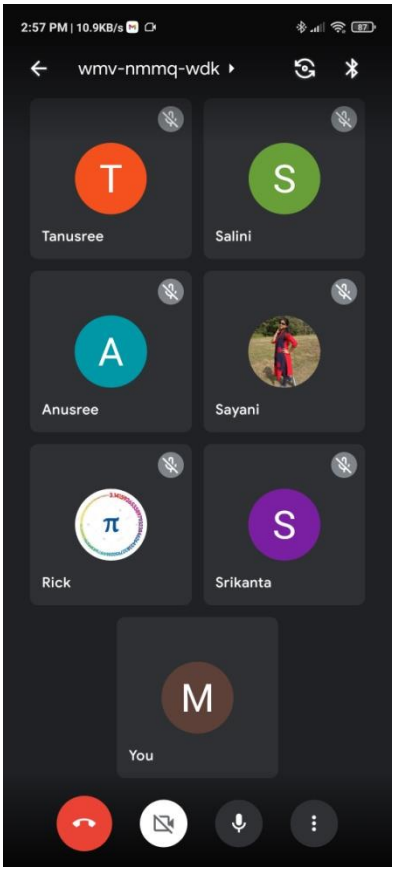
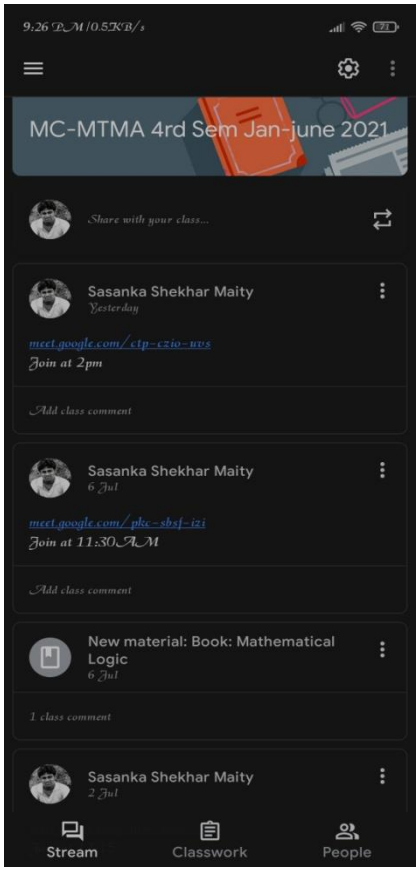
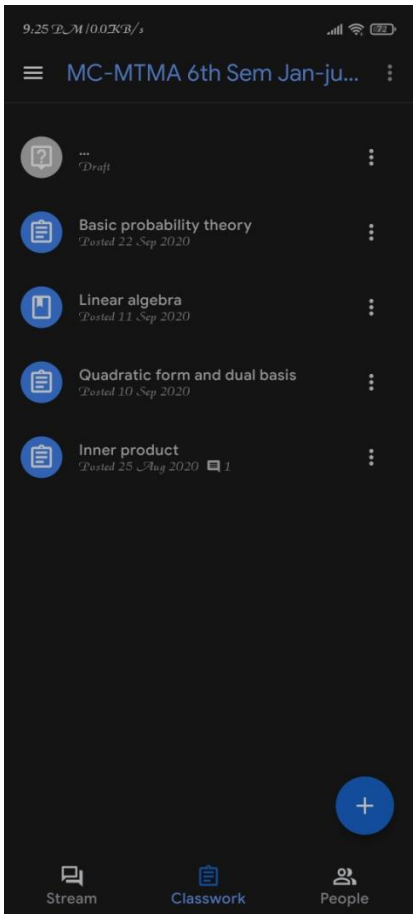
Screen shot of classes:

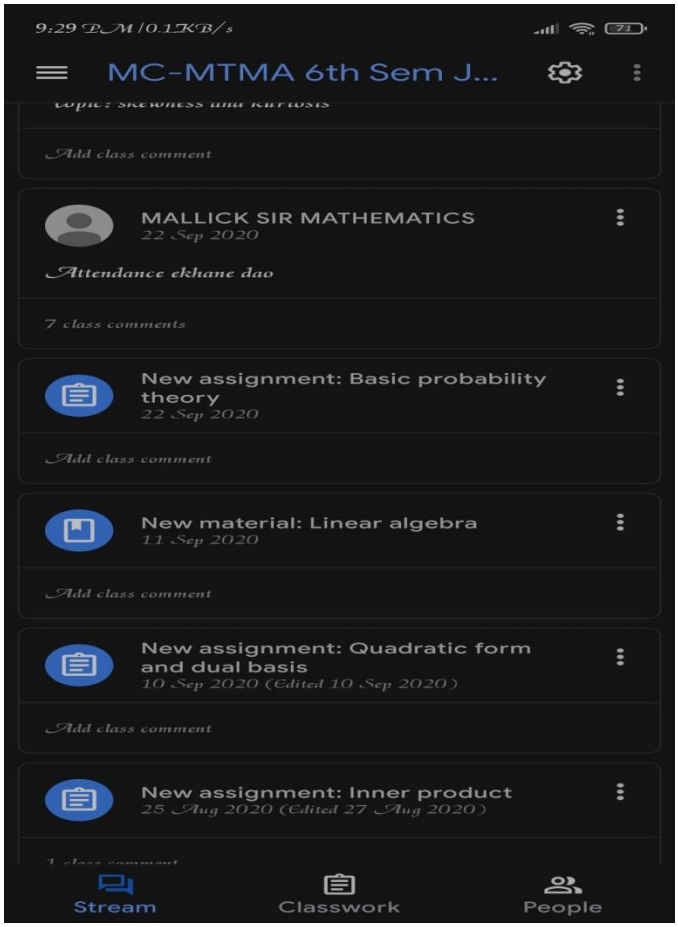


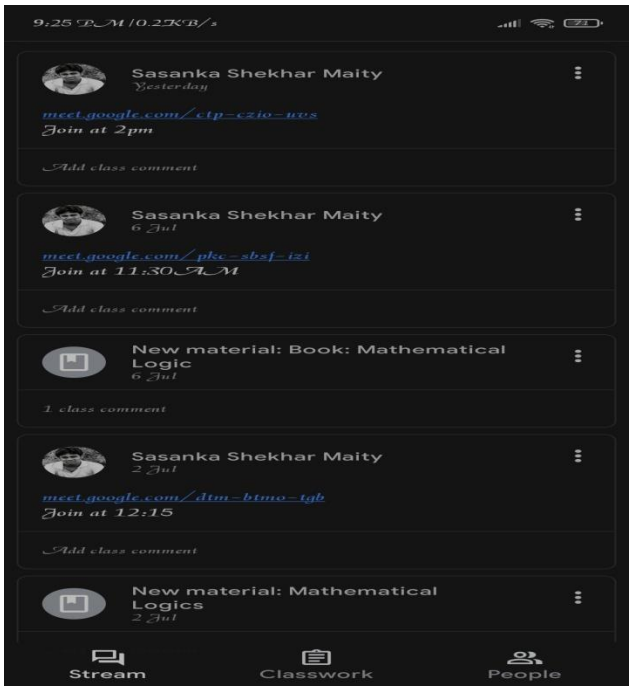


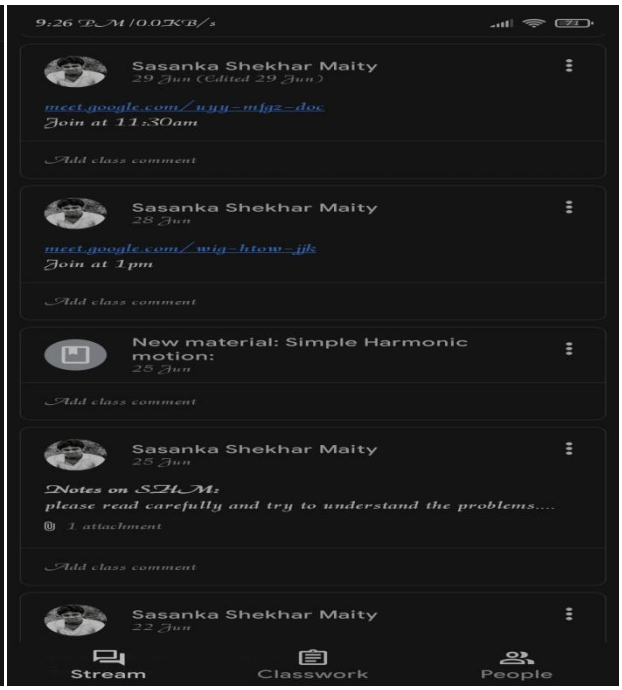


Assignments and study materials:

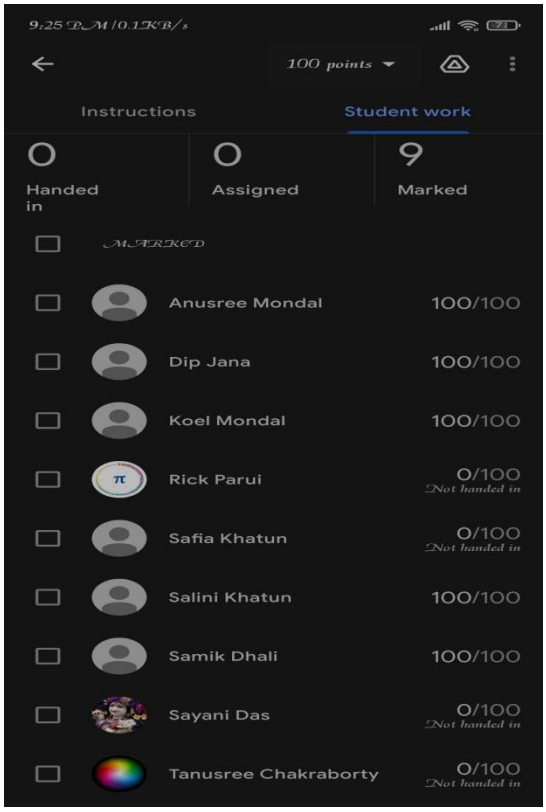


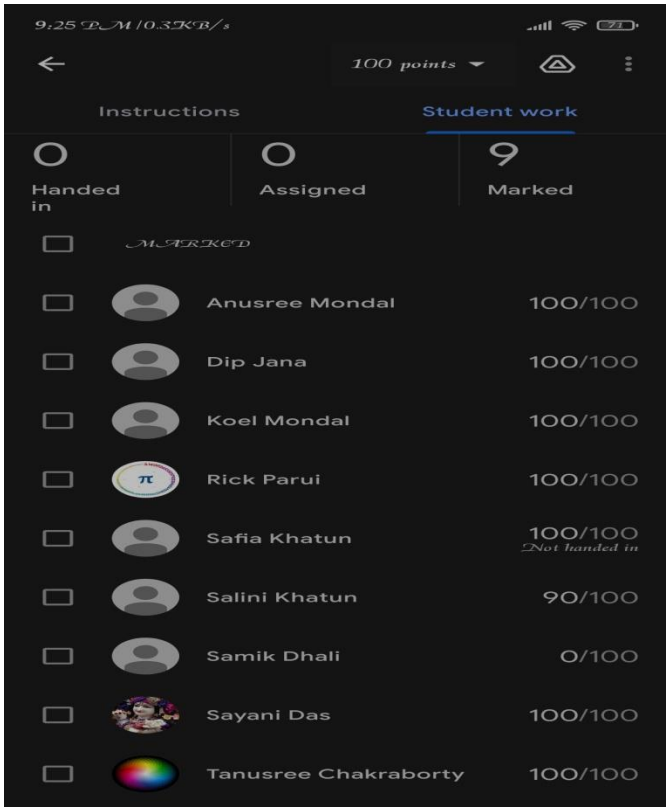


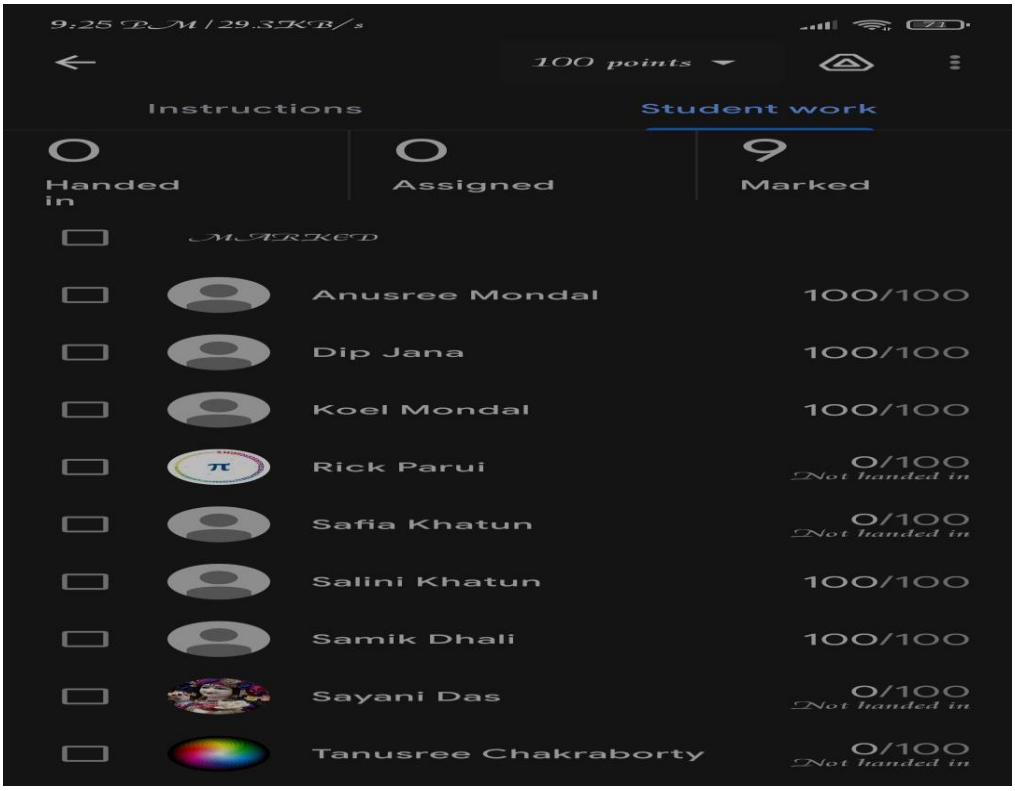




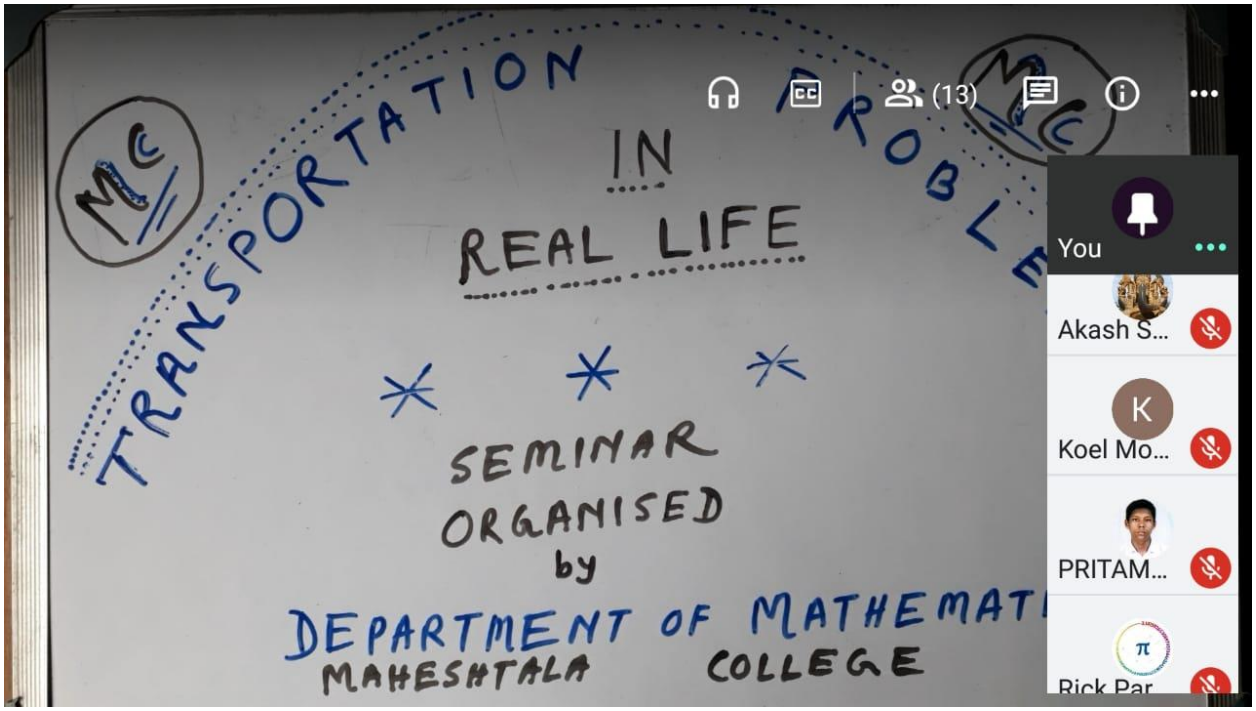
Class work & evaluation:



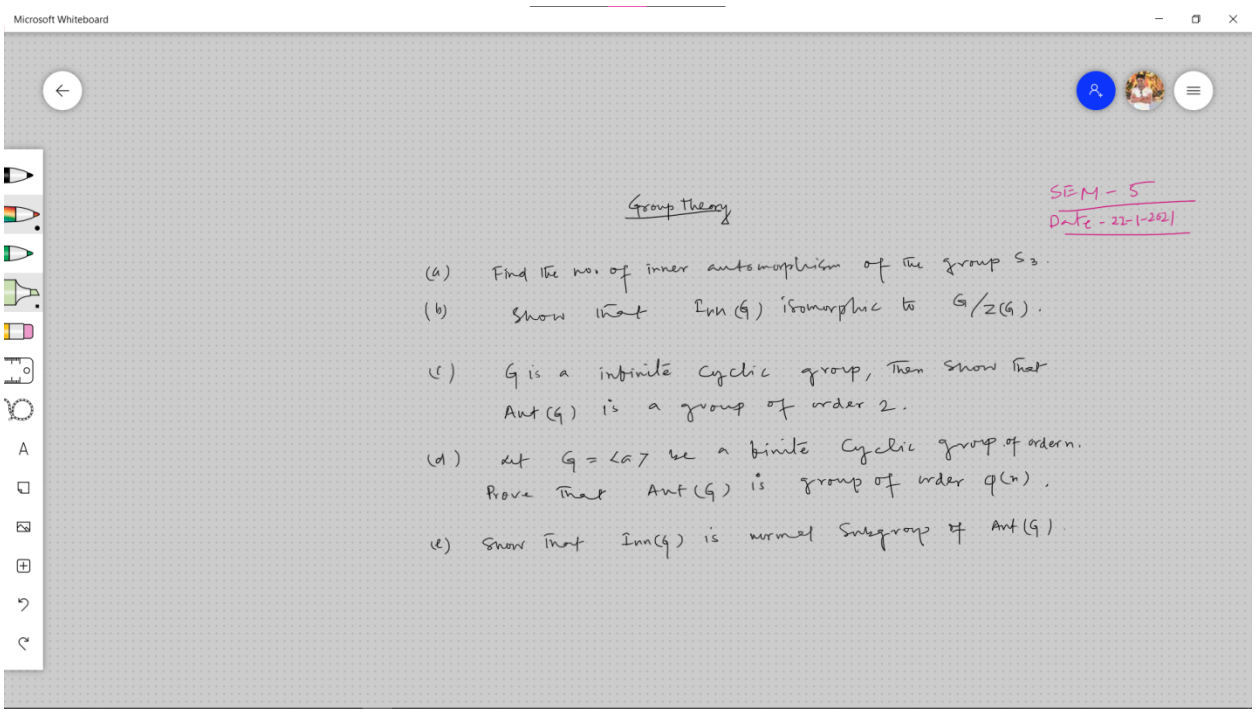


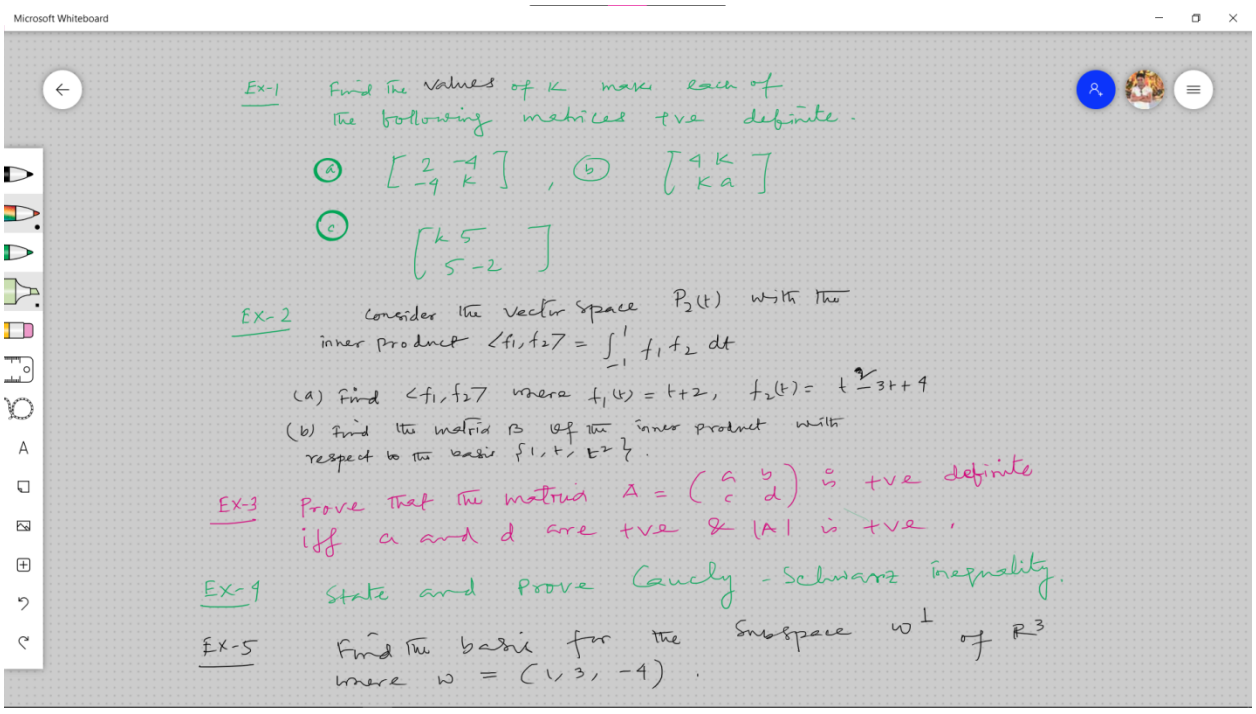


Seminar & Departmental programs:



Some snapshot from Class room:





Microsoft Whiteboard

Ex-1 Evaluate $\int_0^1 \frac{dx}{1+x^2}$ using

(i) Trapizoidal rule

(ii) Simpson's 1/3 rule (Taking $n=6$)

Sol^n: Let $f(x) = \frac{1}{1+x^2}$

$\because n=6$, $h = \frac{1-0}{6} = \frac{1}{6}$

$\frac{1}{1+\frac{1}{36}}$ $\frac{36}{37}$

x :	0	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{5}{6}$	1
$y=f(x)$:	1	0.973	0.9	0.8	0.6923	0.5902	0.5

(i) We have by Composite Trapizoidal rule,

$f(0) = -2 < 0$ $f(1) > 0$ $f(x) = 3x - \cos x - 1$ / $f'(x) = 3 + \sin x$

$f(0.5) = -0.37$ | $f(0.7) = 0.34$

$f(0.5) \times f(0.7) < 0$ $\therefore \exists$ a root betn 0.5 and 0.7

n	x_n	$f(x_n)$	$f'(x_n)$	$h_n = -\frac{f(x_n)}{f'(x_n)}$	$x_{n+1} = x_n + h_n$
0	0.5	−0.37	3.48	0.106321	0.606321
1	0.606321				

Ajijur Rahaman Mallick

Anusree

Safia

Rick

K S

4 others

Cont in this way we get

$$\alpha_{n+1} = \alpha_n - \frac{f(\alpha_n)}{f'(\alpha_n)}$$

Simf.

$$\alpha_1 = \alpha_0 - \frac{f(\alpha_0)}{f'(\alpha_0)}$$

$$\alpha_2 = \alpha_1 - \frac{f(\alpha_1)}{f'(\alpha_1)}$$

or

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)} = x_n + h_n \quad \text{where } h_n = -\frac{f(x_n)}{f'(x_n)}$$

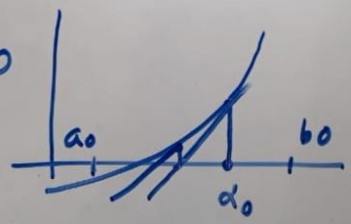
Ajijur Rahaman Mallick

Safia
Samik
Koel
4 others

Solution of eqn by Newton Raphson's method.

$y = f(x) = 0$

root find



Perpendicular → tangent

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Samik
Rick
Safia
4 others

$$\frac{1}{e^x+2} < \frac{1}{e^x}$$

$\because \int_0^\infty \frac{1}{e^x}\,dx$ is conv

$\therefore \int_0^\infty \frac{dx}{e^x+2}$ " " "

Test the conv. of Imp Integrals

(i) $\int_0^\infty \frac{dx}{e^x+2}$

(ii) $\int_1^\infty \frac{(x-1)\sqrt{x}}{1+x+x^3+\sin x}\,dx$

Ajijur Rahaman Mallick

Akash

Pritam

53% 09:36

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MALLICK SIR MATHEMATICS
5 Nov 2020

Give attendance here

3 class comments

UTSAV BAITHA
22 Oct 2020

Assignment problem solved.
Roll no- 03

Add class comment

Md Abu Shaeed Ali
21 Oct 2020

I solve this assignment

Add class comment

MALLICK SIR MATHEMATICS
15 Oct 2020

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MALLICK SIR MATHEMATICS
5 Nov 2020

Give your attendance here

6 class comments

MALLICK SIR MATHEMATICS
4 Nov 2020

Today I have done travelling sales man problem.
Give attendance here

7 class comments

MALLICK SIR MATHEMATICS
2 Nov 2020

Aj jara class korecho Tara attendance ta ekhane dao

5 class comments

Salini Khatun
21 Oct 2020

Ans

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MALLICK SIR MATHEMATICS
13 Sep 2020

ফর্ম টা fill up করে submit করো সবাই করবে।

Add class comment

MALLICK SIR MATHEMATICS
12 Sep 2020

Today I have finished Charnes Big M Method.
Tomra attendance ta ekhane dao

7 class comments

New material: Linear algebra
11 Sep 2020

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Sasanka Shekhar Maity
11 Sep 2020

Today we are going to discuss about Joint and conditional distribution

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Sayani Das
24 Jan

Ans

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MALLICK SIR MATHEMATICS
23 Jan

tuesday i shall exam on lpp

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Koel Mondal
23 Jan

Answer

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Tanusree Chakraborty
23 Jan

Automorphism answer script

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****

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Solve and send me solutions here

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8 Jan

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19 Jan

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Dip Jana
19 Jan

Ans

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Sasanka Shekhar Maity
19 Jan

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