ENTERING THE ERA OF DIGITAL LEARNING: HOW TO CREATE AN EFFICIENT AND INTERACTIVE CLASSROOM USING IPAD AND NOTE-TAKING APP

進入電子學習時代——如何利用IPAD及電子筆記程式打造高效及互動課堂

Enhancing Teaching and Learning with Goodnotes

Mr. Lau Man Kit, Jack
劉文傑老師
Chan Sui Ki (La Salle) College
陳瑞祺(喇沙)書院

Overview

- Demonstrate a sample Mathematics lesson using Goodnotes
- Enhance teaching and learning efficiency
- Foster interactivity between teachers and students

Traditional teaching mode

- Blackboard
- Powerpoint
- Worksheet & Visualizer
- iPad (OneNote, Goodnotes, etc.)

Limitations

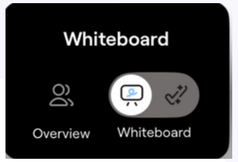
- Limited time for students to copy down notes
- Lesson time may be lost as teachers wait for slower writers
- Limited attention from students as they prioritize copying over listening to the teacher
- Poor handwriting can make notes hard to read and less meaningful.

Goodnotes Classroom

The new way to connect with each student, grade papers faster, and make lessons even more collaborative and engaging.

Teaching Mode

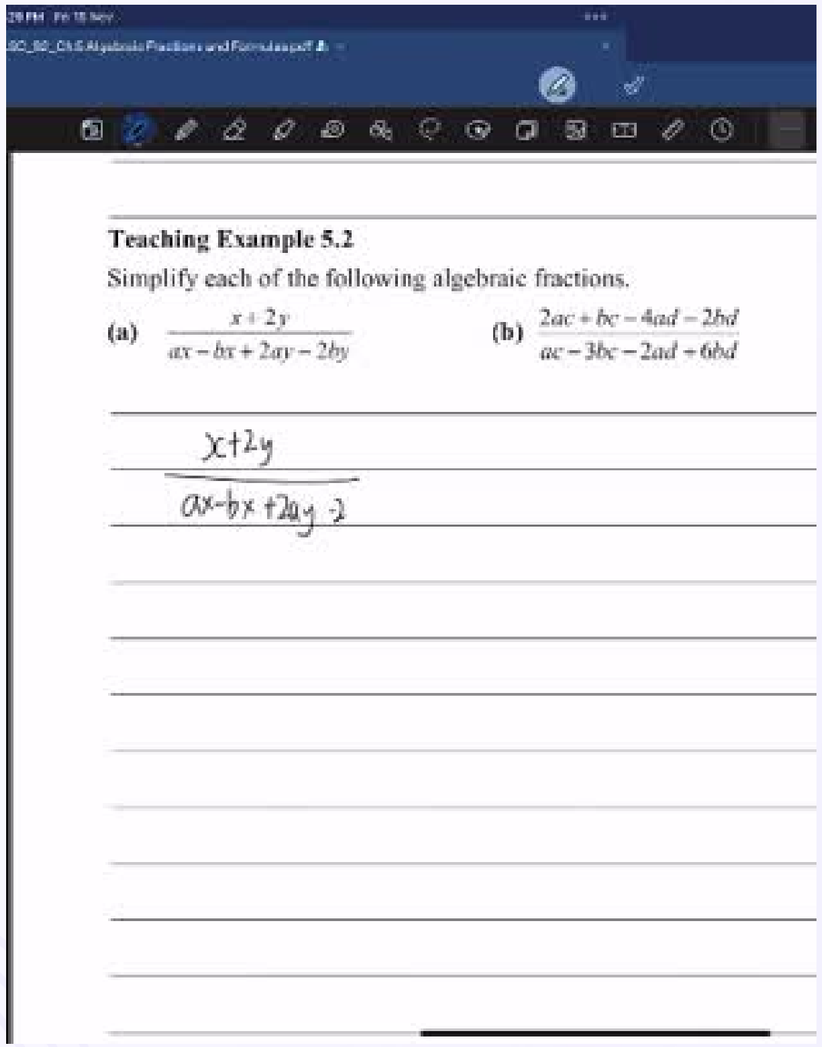
Everything the teacher writes is instantly displayed on each student's iPad note.



Whiteboard Mode

Anything the teacher writes is displayed solely on the teacher's note.

Teaching Mode



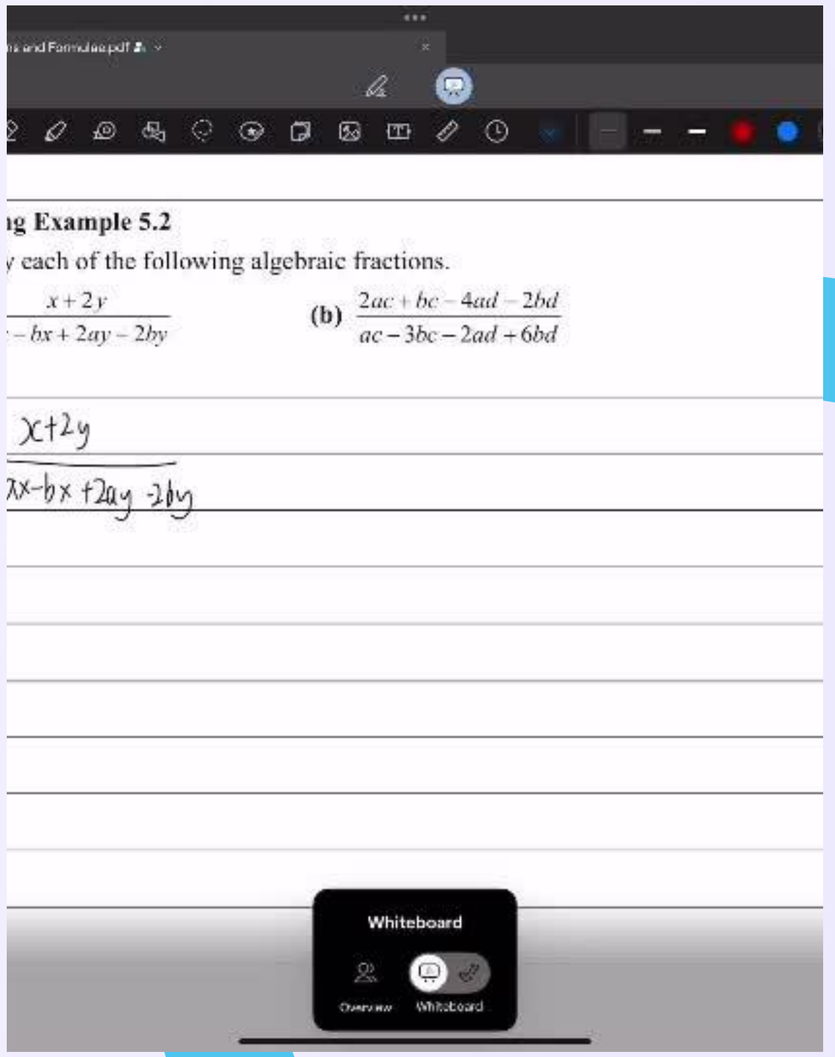
Teaching Example 5.2

Simplify each of the following algebraic fractions.

(a) $\dfrac{x+2y}{ax-bx+2ay-2by}$ **(b)** $\dfrac{2ac+bc-4ad-2bd}{ac-3bc-2ad+6bd}$

$\dfrac{x+2y}{ax-bx+2ay-2}$

Whiteboard Mode

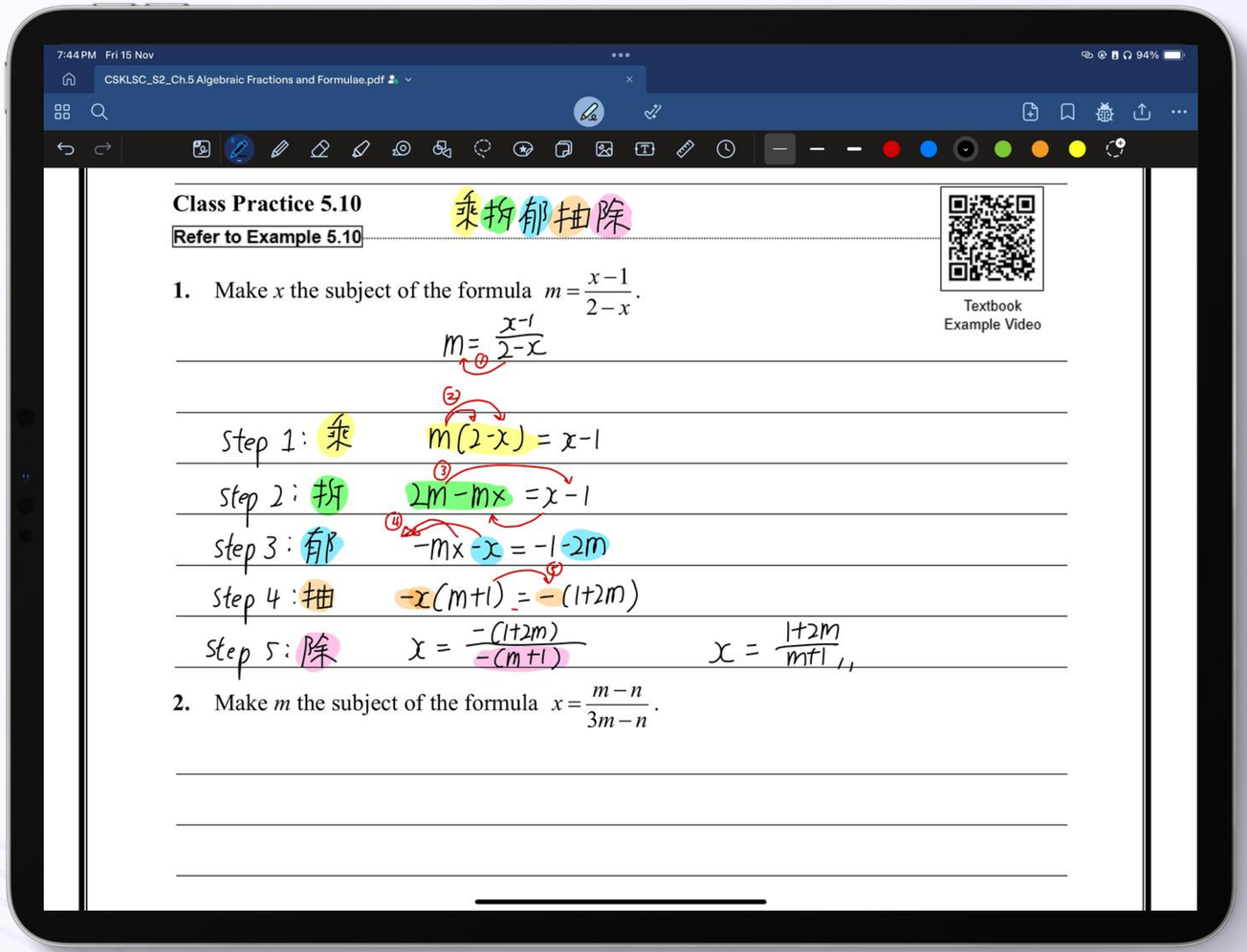


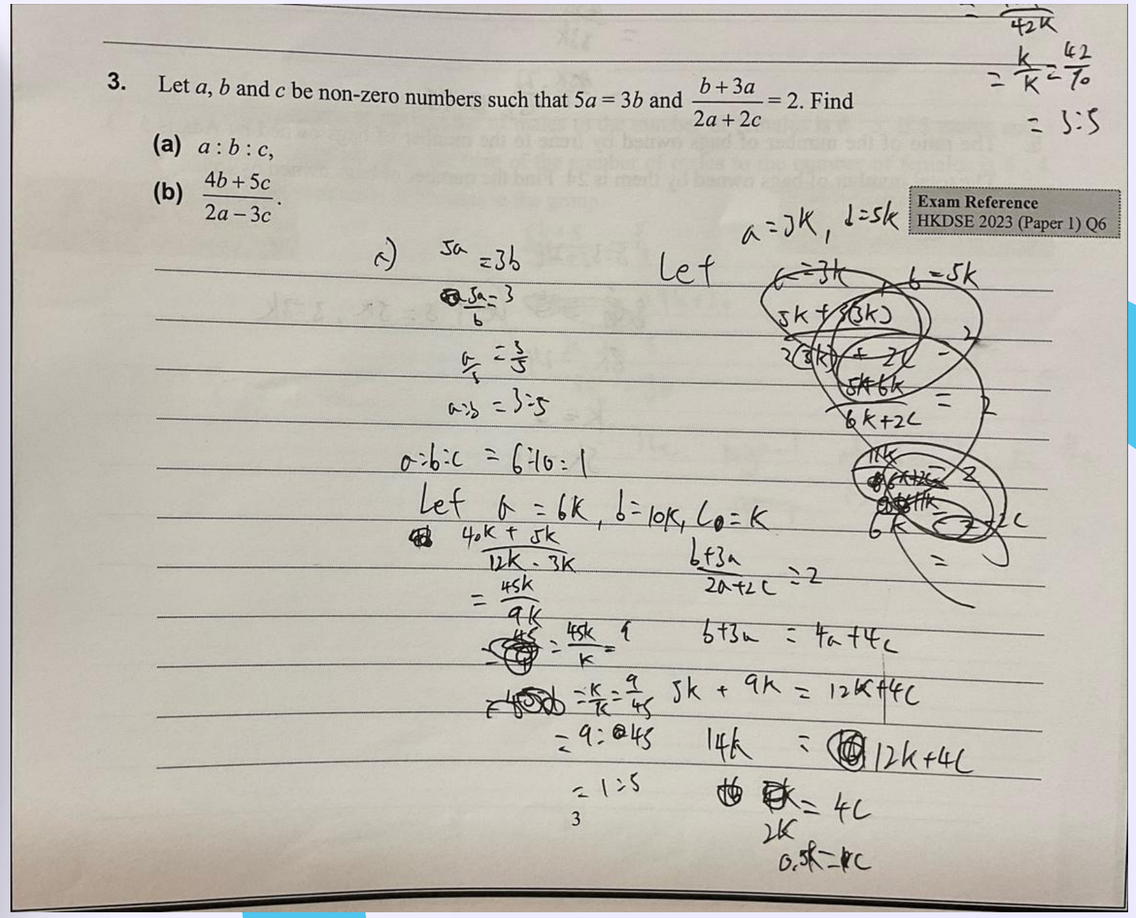
g Example 5.2

y each of the following algebraic fractions.

$\dfrac{x+2y}{-bx+2ay-2by}$ **(b)** $\dfrac{2ac+bc-4ad-2bd}{ac-3bc-2ad+6bd}$

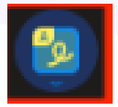
$\dfrac{x+2y}{ax-bx+2ay-2by}$


7:44 PM Fri 15 Nov
94%
CSKLSC_S2_Ch.5 Algebraic Fractions and Formulae.pdf
Class Practice 5.10
乘拆郁抽除
Refer to Example 5.10
Textbook Example Video
1. Make x the subject of the formula $m=\frac{x-1}{2-x}$.
$m=\frac{x-1}{2-x}$
Step 1: 乘 $m(2-x)=x-1$
Step 2: 拆 $2m-mx=x-1$
Step 3: 郁 $-mx-x=-1-2m$
Step 4: 抽 $-x(m+1)=-(1+2m)$
Step 5: 除 $x=\frac{-(1+2m)}{-(m+1)}$ $x=\frac{1+2m}{m+1}$
2. Make m the subject of the formula $x=\frac{m-n}{3m-n}$.


3. Let a, b and c be non-zero numbers such that $5a=3b$ and $\frac{b+3a}{2a+2c}=2$. Find
(a) $a:b:c$,
(b) $\frac{4b+5c}{2a-3c}$.
Exam Reference
HKDSE 2023 (Paper 1) Q6
a=3k, b=5k
5a=3b
a:b:c = 6:10:1
Let a=6k, b=10k, c=k
5k+9k=12k+4c
14k=12k+4c
2k=4c
0.5k=1c

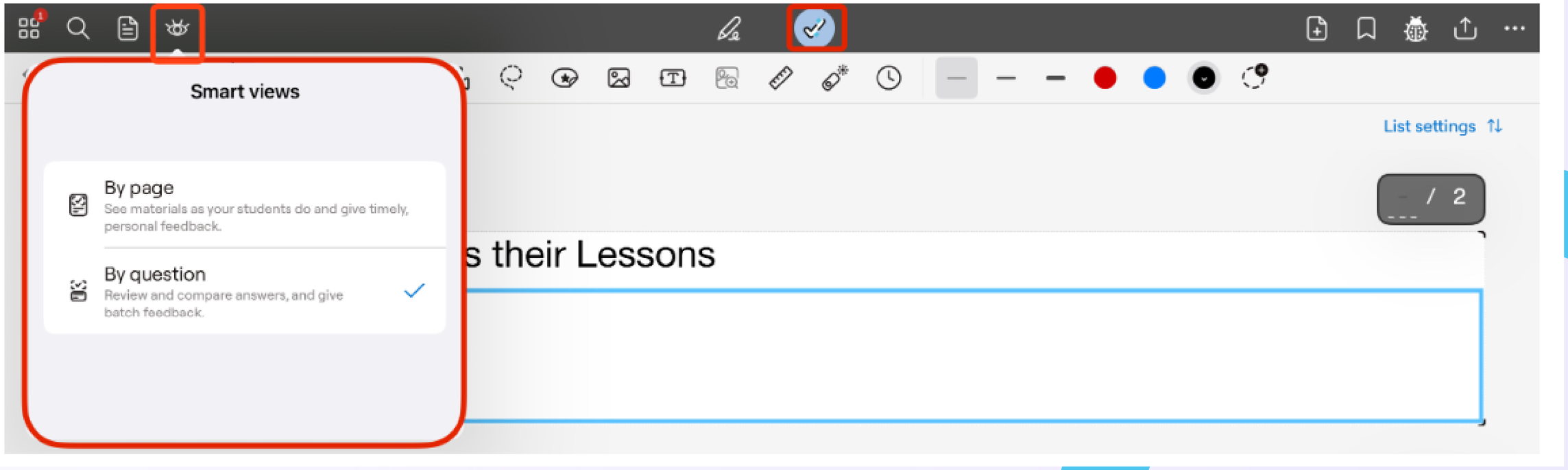
Goodnotes Classroom

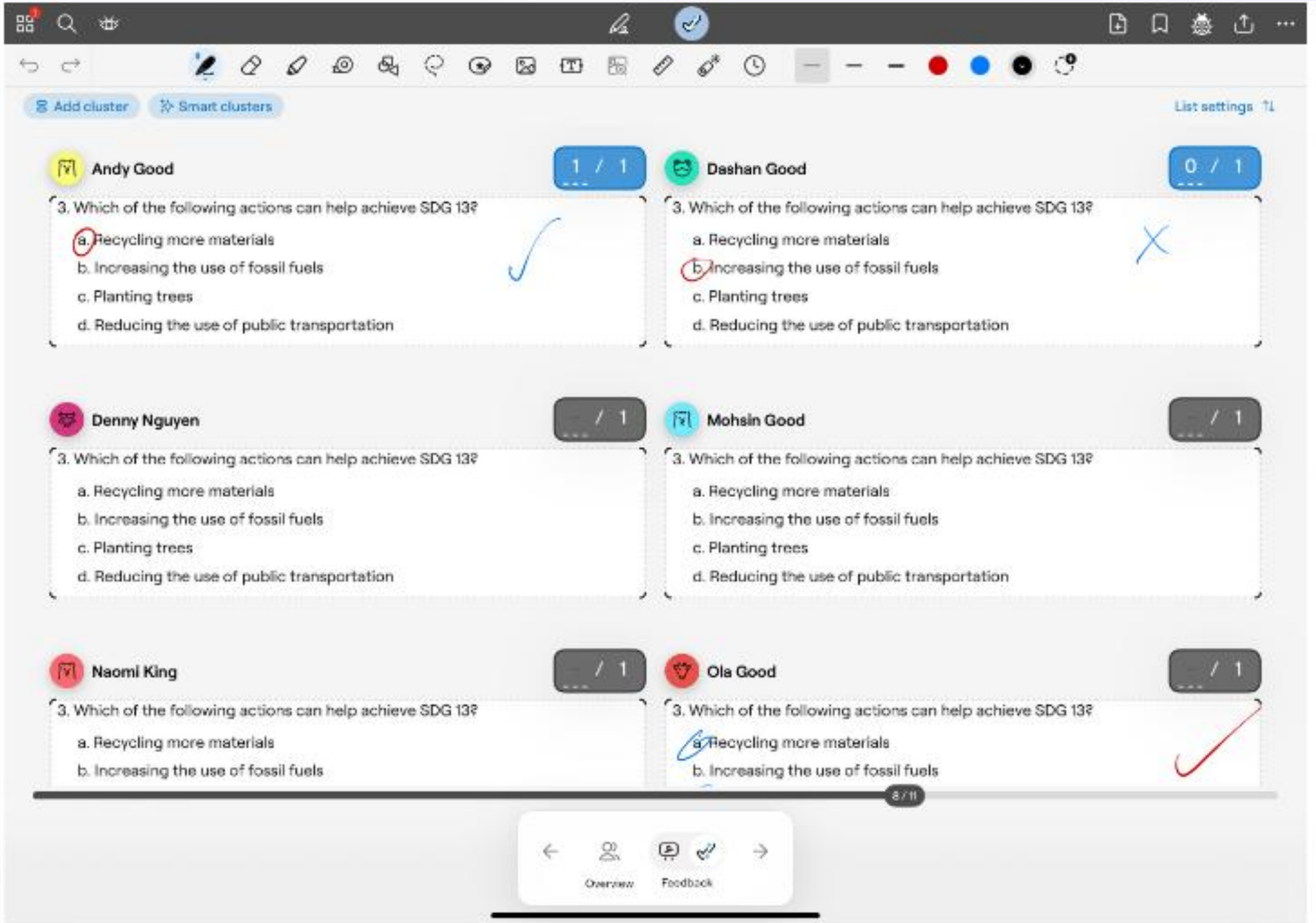
The new way to connect with each student, grade papers faster, and make lessons even more collaborative and engaging.

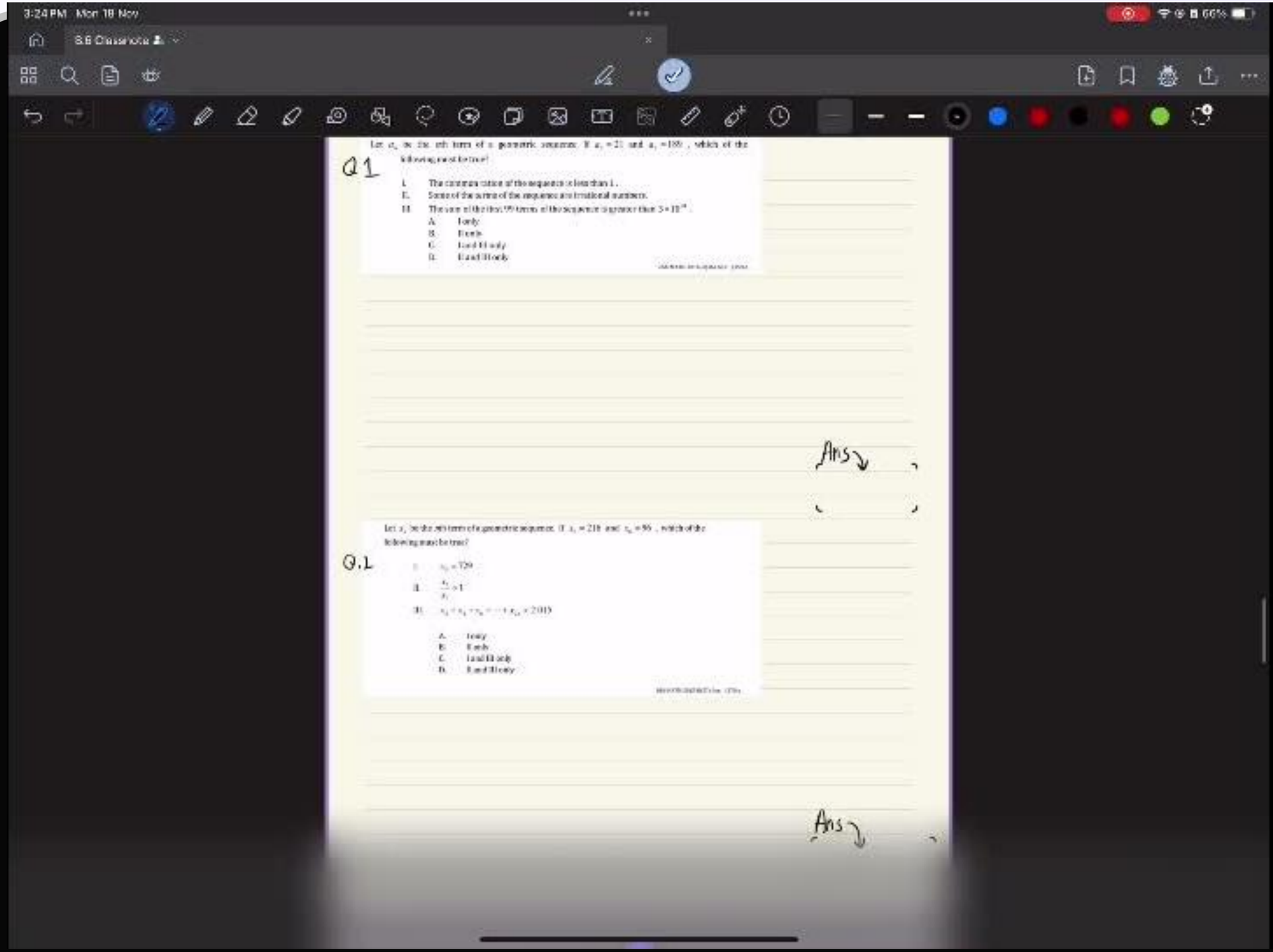


Answer Zone

Creating Answer Zones also makes it easier to view all your Student's Answers in one place


Smart views
By page
See materials as your students do and give timely, personal feedback.
By question
Review and compare answers, and give batch feedback.
List settings
/ 2
s their Lessons

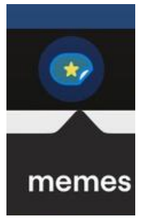

Add cluster
Smart clusters
List settings
Andy Good
1 / 1
3. Which of the following actions can help achieve SDG 13?
a. Recycling more materials
b. Increasing the use of fossil fuels
c. Planting trees
d. Reducing the use of public transportation
Dashan Good
0 / 1
3. Which of the following actions can help achieve SDG 13?
a. Recycling more materials
b. Increasing the use of fossil fuels
c. Planting trees
d. Reducing the use of public transportation
Denny Nguyen
/ 1
3. Which of the following actions can help achieve SDG 13?
a. Recycling more materials
b. Increasing the use of fossil fuels
c. Planting trees
d. Reducing the use of public transportation
Mohsin Good
/ 1
3. Which of the following actions can help achieve SDG 13?
a. Recycling more materials
b. Increasing the use of fossil fuels
c. Planting trees
d. Reducing the use of public transportation
Naomi King
/ 1
3. Which of the following actions can help achieve SDG 13?
a. Recycling more materials
b. Increasing the use of fossil fuels
Ola Good
/ 1
3. Which of the following actions can help achieve SDG 13?
a. Recycling more materials
b. Increasing the use of fossil fuels
8 / 11
Overview
Feedback


3:24 PM Mon 18 Nov
Q1
Ans
Q.1
Ans

Goodnotes Classroom

The new way to connect with each student, grade papers faster, and make lessons even more collaborative and engaging.

Memes Sticker



Correction Tape

17. Let $G(n)$ be the nth term of a geometric sequence. The sum of the first 3 terms of the sequence is 1701 and the sum of the first 6 terms of the sequence is 1638.

lv2

(a) Find the first term of the sequence. (2 marks)

(b) Suppose that $P(n) = G(2n-1)$ for any positive integer n. Find the least value of m such that $\log_9(P(1)P(2)...P(m)) < -100$. (5 marks)

a) $S_{(2)} = 1701$ $\quad S_{(6)} = 1638$

$\frac{a(r^2-1)}{r-1} = 1701$ $\quad a(r^6-1) = 1638(r-1)$

$a(r^2-1) = 1701(r-1)$

$\frac{r^6-1}{r^2-1} = \frac{1638}{1701}$

$\frac{r^6-1}{r^2-1} = \frac{26}{27}$

$27r^6-27 = 26r^2-26$

$27r^6-26r^3-1 = 0$

$r^3 = 1$ or $-\frac{1}{27}$

$r = 1$ (rej.) or $-\frac{1}{3}$

when $r = -\frac{1}{3}$

$a = 2187$

iPad 有電!! ㄟ

part (b) 在 where ? Potato.

Overview Feedback

AS & GS 22 Feb, 2024

16. The sum of the first 2 terms of a geometric sequence is 1 and the sum of the first 4 terms of the sequence is 5. It is known that all the terms of the sequence are positive.

lv1

(a) Find the first term of the sequence. (2 marks)

(b) Find the least value of n such that the sum of the first n terms of the sequence is greater than 5^{30}. (3 marks)

a) $a + ar = 1$ $\quad a(1+r) = 1$ $\quad (1+r) = \frac{1}{a}$

$a + ar + ar^2 + ar^3 = 5$

$1 + ar^2 + ar^3 = 5$

$ar^2(1+r) = 4$

$ar^2(\frac{1}{a}) = 4$

$r^2 = 4$

$r = 2$

$a + 2a = 1$

$3a = 1$

$a = \frac{1}{3}$

∴ first term is $\frac{1}{3}$ //

:)

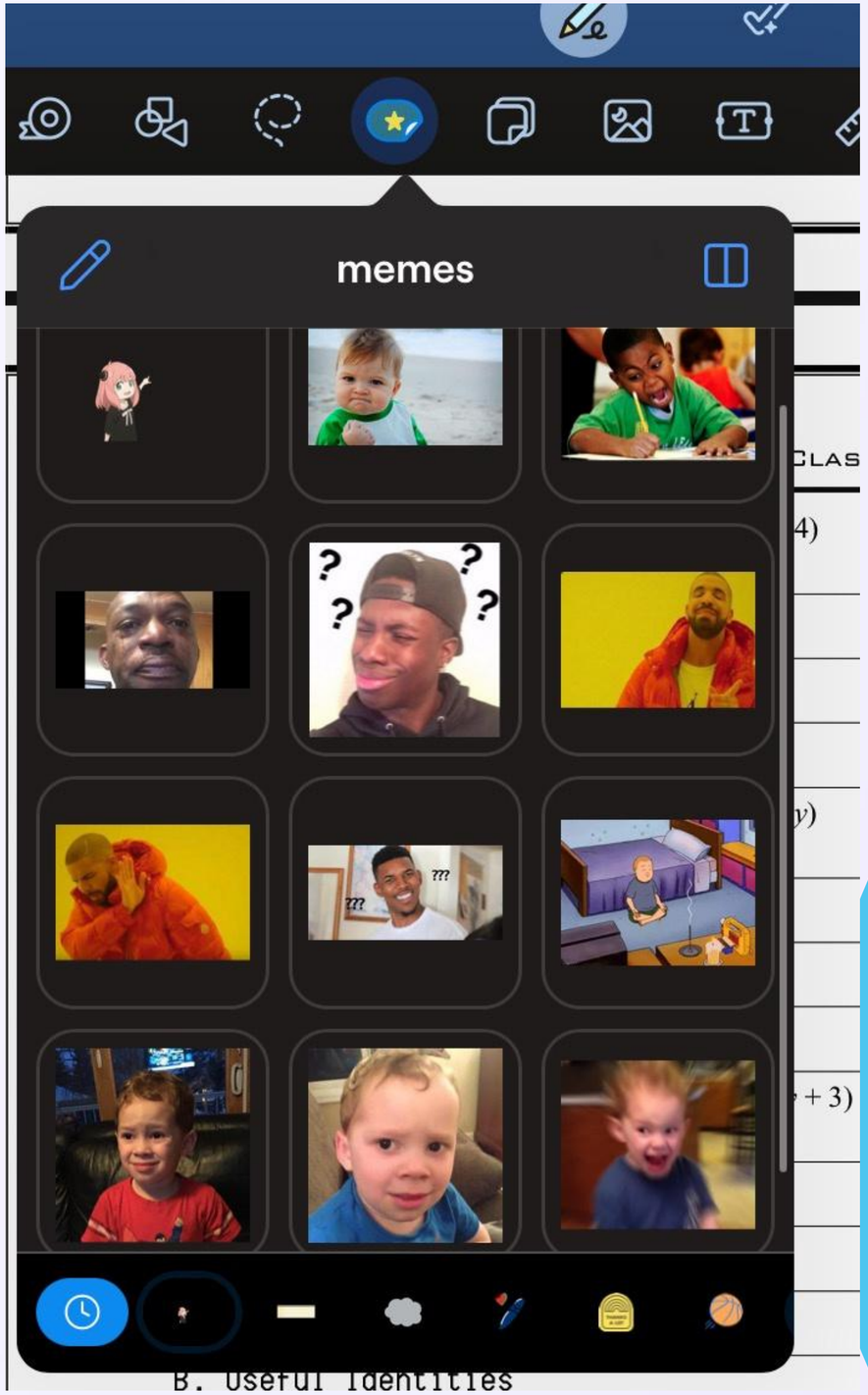
b) $S_{(n)} > 5^{30}$

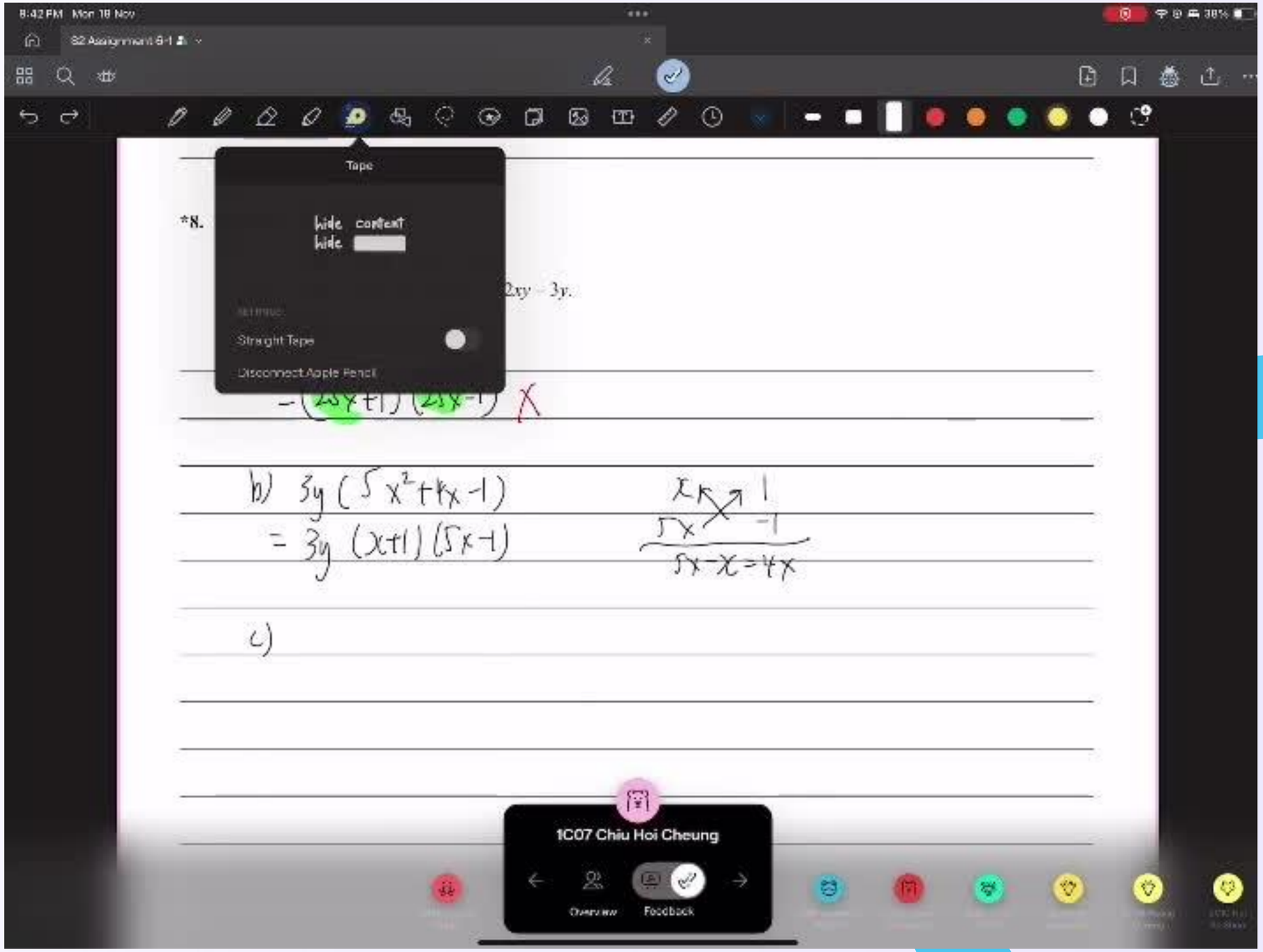
$\frac{a(r^n-1)}{r-1} > 5^{30}$

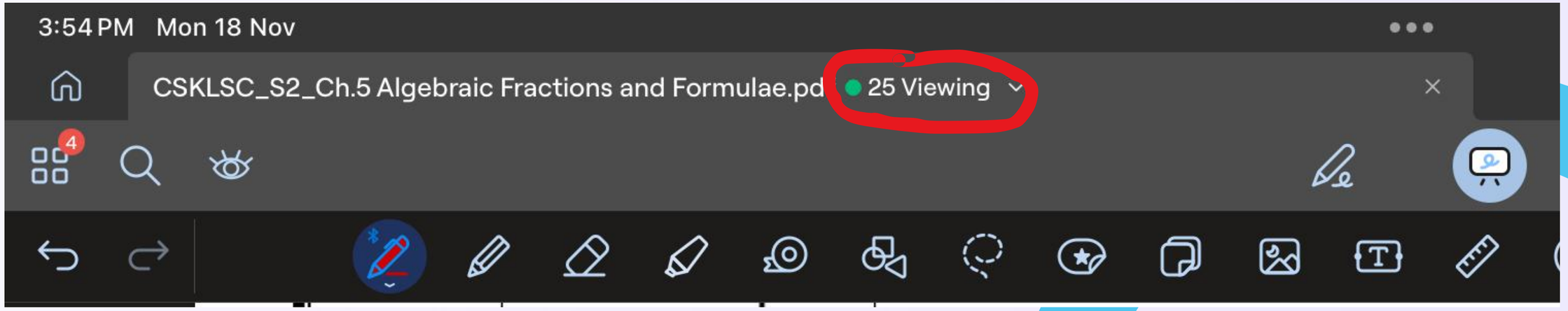
$\frac{1}{3}(2^n-1) > 5^{30}$

$n > 71.24$

∴ $n = 72$ //


memes
CLAS
4)
y)
+ 3)
B. Useful Identities


8:42 PM Mon 18 Nov
Tape
hide content
hide
Straight Tape
Disconnect Apple Pencil
*8.
2xy − 3y.
b) 3y(5x²+4x−1)
= 3y(x+1)(5x−1)
c)
1C07 Chiu Hoi Cheung
Overview
Feedback


3:54 PM Mon 18 Nov
CSKLSC_S2_Ch.5 Algebraic Fractions and Formulae.pd
25 Viewing
4

Apple Classroom

Hands-on Workshop

Goodnotes Classroom

THANK YOU