

FUKIEN SECONDARY SCHOOL
S5 First Term Uniform Test (2021-2022)
Mathematics Extended Part Module 1
(1 hour 15 minutes)

Date: 12th November 2021

Time: 8:30 a.m.-9:45 a.m.

Name: _____

Class: _____ No.: _____

Instructions to students:

1. The maximum score of this paper is 53.
2. Attempt ALL questions.
3. Write your answers in the spaces provided in this Question-Answer Book.
4. Unless otherwise specified, show your workings clearly.
5. Unless otherwise specified, numerical answers should be either exact or given to 4 decimal places.

- (5 marks)

- 3 (a) Express $\frac{d}{dx}((x^6+1)\ln(x^2+1))$ in the form $f(x)+g(x)\ln(x^2+1)$, where $f(x)$ and $g(x)$ are polynomials.
- (b) Find $\int x^5 \ln(x^2+1)dx$.

(7 marks)

This image shows a full page of a handwriting practice worksheet. It consists of multiple rows of horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

- (7 marks)

[illegible]

- (7 marks)

This image shows a full page of a worksheet designed for handwriting practice. It features 20 evenly spaced, horizontal dashed lines across the entire width of the page. The background is plain white, providing a clear guide for letter height and placement. There are no margins, text, or other markings present.

- (6 marks)

[illegible]

- (8 marks)

This image shows a full page of a worksheet designed for handwriting practice. It features 20 evenly spaced, horizontal dashed lines across the entire width of the page. The background is plain white, providing a clear guide for letter height and placement. There are no margins, text, or other markings present.