MapleMind

File 2
Practice exam

newfoundland | Grade 12

Mathematics 3200 Public Exam

Practice set 1 Student booklet

In this practice exam · 3 hours in all

1	**Part I: Selected Response**	50 questions
2	**Part II: Constructed Response**	12 questions

Before you start

- You have 3 hours to finish.
- You may use an approved calculator.
- Use the reference pages whenever you need them.
- In the written questions, show your work.

Your initials or class number
Not your student number

_____



Finished? Ask an adult to photograph your pages.
MapleMind marks them and shows what to practise next.

Sample

Part I: Selected Response

Questions 1 to 50

1 At an art show, a monic cubic polynomial P describes a curve in a display design. The table gives values of P. Which expression writes $P(x)$ as a product of linear factors?

Polynomial values

Input	P(x)
-6	0
1	0
4	0

◯ **A** $(x+6)(x-1)(x-4)$

◯ **B** $(x+6)(x+1)(x-4)$

◯ **C** $(x+6)(x-1)(x+4)$

◯ **D** $(x-6)(x-1)(x-4)$

Sample

Part II: Constructed Response

Questions 51 to 62

51 A community garden models the amount of material remaining in a composting process with the polynomial $P(x) = x^3 - 8x^2 - 3x + 90$. The table lists its coefficients. You are told that $x - 5$ is a factor.

Explain why $P(a)$ is the remainder when $P(x)$ is divided by $x - a$. Then use the factor theorem to write $P(x)$ as a product of linear factors and state the zeros of the function.

Polynomial coefficients

Power of x	Coefficient
x^3	1
x^2	−8
x	−3
constant	90

Show your work

Sample

Answer key

Practice set 1. Add up the marks on the score sheet, page 12.

A question with several parts earns its mark only when every part is right.

Part I: Selected Response

1 mark each · 50 marks

No.	Answer	Mark	What it tests	Page
1	[illegible]	1	Polynomial Functions	2
2	[illegible]	1	Polynomial Functions	3
3	[illegible]	1	Polynomial Functions	4
4	[illegible]	1	Polynomial Functions	4
5	[illegible]	1	Polynomial Functions	5
6	[illegible]	1	Polynomial Functions	6
7	[illegible]	1	Function Transformations and Radical Functions	7
8	[illegible]	1	Function Transformations and Radical Functions	8
9	[illegible]	1	Function Transformations and Radical Functions	8
10	[illegible]	1	Function Transformations and Radical Functions	9

Sample

Question 52: worked answer and marks

4 marks

Question 55: worked answer and marks

4 marks

Sample

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File 1
Start here

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Mathematics 3200 Public Exam

The guide for students and adults

For the student

What to expect	Page 2
Your skills	Page 3
Your study plan	Page 6
How to study	Page 7
Your progress	Page 8
Exam day	Page 9

For the adult

How to print it, run it and mark it	Page 10
Answer keys Keep these files away from the student.	File 3

In your download

File 1	Start here (this guide)
File 2	Practice exam, Set 1
File 3	Answer key, Set 1
File 4	Reference sheet
Study plan	To your exam date, when you gave one
Code list	Who has each copy, for a class



Start with page 2, together if you can.
Your study plan is on page 6.

Sample