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External Assessment 2021

MATHEMATICS METHODS FOUNDATION

MTM315117

Part **1**

Reading time: 15 minutes – you may begin writing during this time

Suggested working time: 80 minutes

Instructions

Calculators are not allowed to be used.
Part 1 will be collected after 80 minutes.

- There are **five (5)** sections to this exam paper.

- Attempt **all questions** and **all parts** within each question.
  - Questions worth **more than one** mark – you must show your workings.
  - Questions worth **one mark** – markers will look at presentation of the answer and at the argument leading to the answer.

- Write your answers in the spaces provided in this question booklet.
  - Spare diagrams have been provided at the end of each section. Indicate in the box provided if you have used the spare diagram.

- All written responses must be in **English**.

- During the first 80 minutes you may move onto Part 2, but you **cannot** use your calculator until told by your Supervisor(s).

- You **must** make sure your answers address:
  - Criterion 4   manipulate algebraic expressions and solve equations.
  - Criterion 5   understand linear, quadratic and cubic functions.
  - Criterion 6   understand logarithmic, exponential and trigonometric functions.
  - Criterion 7   use differential calculus in the study of functions.
  - Criterion 8   understand experimental and theoretical probabilities and of statistics.

Marker use	
C4	**16**
C5	**16**
C6	**16**
C7	**16**
C8	**16**

Guide to Exam Structure

		Sections	Questions available	How many questions to answer	Suggested working time	Marks available
Part	1	Section A	4	4	16 minutes	16
		Section B	4	4	16 minutes	16
		Section C	5	5	16 minutes	16
		Section D	4	4	16 minutes	16
		Section E	3	3	16 minutes	16
Total			**20**	**20**	**80 minutes**	**80**
Part	2	Section A	5	5	20 minutes	20
		Section B	3	3	20 minutes	20
		Section C	5	5	20 minutes	20
		Section D	4	4	20 minutes	20
		Section E	3	3	20 minutes	20
Total			20	20	100 minutes	100
Total			**40**	**40**	**180 minutes (3 hours)**	**180**

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Part **2**

Suggested working time: 100 minutes

Instructions

Calculators are allowed to be used.

- There are **five (5)** sections to this exam paper.
- Attempt **all questions** and **all parts** within each question.
  - Questions worth **more than one** mark – you must show your workings.
  - Questions worth **one mark** – markers will look at presentation of the answer and at the argument leading to the answer.
- Write your answers in the spaces provided in this question booklet.
  - Spare diagrams have been provided at the end of each section.
    Indicate in the box provided if you have used the spare diagram.
- All written responses must be in **English**.

- You **must** make sure your answers address:
  - Criterion 4   manipulate algebraic expressions and solve equations.
  - Criterion 5   understand linear, quadratic and cubic functions.
  - Criterion 6   understand logarithmic, exponential and trigonometric functions.
  - Criterion 7   use differential calculus in the study of functions.
  - Criterion 8   understand experimental and theoretical probabilities and of statistics.

Marker use	
C4	**20**
C5	**20**
C6	**20**
C7	**20**
C8	**20**

Guide to Exam Structure

		Sections	Questions available	How many questions to answer	Suggested working time	Marks available
Part	1	Section A	4	4	16 minutes	16
		Section B	4	4	16 minutes	16
		Section C	5	5	16 minutes	16
		Section D	4	4	16 minutes	16
		Section E	3	3	16 minutes	16
Total			**20**	**20**	**80 minutes**	**80**
Part	2	Section A	5	5	20 minutes	20
		Section B	3	3	20 minutes	20
		Section C	5	5	20 minutes	20
		Section D	4	4	20 minutes	20
		Section E	3	3	20 minutes	20
Total			20	20	100 minutes	100
Total			**40**	**40**	**180 minutes (3 hours)**	**180**