



**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

JUNE 2023

**MATHEMATICAL LITERACY P2
MARKING GUIDELINE**

MARKS: 100

Symbol	Explanation
M	Method
M/A	Method with Accuracy
MCA	Method with Consistent Accuracy
CA	Consistent Accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG/RM	Reading from a table OR Reading from a graph OR Read from map
F	Choosing the correct formula
SF	Substitution in a formula
J	Justification
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off OR Reason
AO	Answer only
NPR	No penalty for rounding

This marking guideline consists of 7 pages.

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web il s applique à tous les systèmes de calcul formel mais les exemples sont traités ici sous maple v3 le lecteur n est pas considéré comme un utilisateur face à une boîte noire ce livre lui permettra de comprendre différentes opérations sur les objets de base que manipule un système de calcul formel et lui présentera aussi

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web comme exemples d opérations de calcul formel on peut citer le calcul de dérivées ou de primitives la simplification d expressions la décomposition en facteurs irréductibles de polynômes la mise sous formes normales de matrices ou encore la résolution des systèmes polynomiaux

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web au delà des fonctionnalités de calcul formel et de programmation à proprement parler maple permet par exemple de copier et coller dans un traitement de texte les formules mathématiques issues des calculs de tracer des courbes et surfaces ou encore de générer des programmes numériques en langage c il offre un mode console et un

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web factor pour maple le symbole d esigne l expression qui vient d etre calcul ee n n 1 2 de m eme on e ectue facilement les calculs suivants ce qui permet de d evelopper une id ee de la formule g en erale pour la somme $\sum_{i=1}^n i^k$ on a les cas particuliers $\sum_{i=1}^n i$ $\sum_{i=1}^n i^2$ $\sum_{i=1}^n i^3$ $\sum_{i=1}^n i^4$ $\sum_{i=1}^n i^5$ $\sum_{i=1}^n i^6$ $\sum_{i=1}^n i^7$ $\sum_{i=1}^n i^8$ $\sum_{i=1}^n i^9$ $\sum_{i=1}^n i^{10}$

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web maple est un langage de calcul formel mais c est aussi un langage de programmation nous allons voir par exemple si on

décide d aller de 2 en 2 for i from 1 to 10 by 2 do i end do 1 6 120 5040 362880 4 2 while on utilise la boucle while quand on doit déterminer en cours de route le nombre de répétitions sa