



Candidate Barcode label/Stafieskodeplakker

NSC Answer Book
NSS-antwoordeboekNational Senior Certificate/*Nasionale Senior Sertifikaat* (Grade 12/*Graad 12*) – November 2022

CENTRE NUMBER <i>SENTRUMNOMMER</i>							
---------------------------------------	--	--	--	--	--	--	--

[illegible]

DATE <i>DATUM</i>	
----------------------	--

BOOK NUMBER BOEKNUMMER		OF VAN		BOOKS BOEKE
---------------------------	--	-----------	--	----------------

SUBJECT CODE VAKKODE					
-------------------------	--	--	--	--	--

PAPER NUMBER VRAESTELNOMMER	2
--------------------------------	---

SUBJECT NAME VAKNAAM	MATHEMATICS/WISKUNDE
-------------------------	-----------------------------

[illegible]

**CONTROLLED AND CERTIFIED CORRECT
(SURNAME AND INITIALS OF EA)
GEKONTROLEER EN AS KORREK
GESERTIFISEER (VAN EN VOORLETTERS
VAN EA)**

READ INSTRUCTIONS ON THE NEXT PAGE.
LEES INSTRUKSIES OP VOLGENDE BLADSY.

This answer book consists of 23 pages./Hierdie antwoordeboek bestaan uit 23 bladsye.



PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY	VOLG ASSEBLIEF HIERDIE INSTRUKSIES NOUKEURIG
- Clearly write your examination number and centre number in the space provided and attach your barcode label in the space provided. - Remember that your own name (or the name of your school) may not appear anywhere on or in this answer book. - Answer ALL questions in the spaces provided. - No pages may be torn from this answer book. - Read the instructions printed on your timetable carefully as well as any other instructions which may be given in each examination paper. - Candidates may not retain an answer book or remove it from the examination room. - Answers must be written in black/blue ink as distinctly as possible. Do not write in the margins. - Write the numbers of the questions you have answered on the front cover of the answer book where marks are to be recorded. - If you require additional space for your answers: - Use the additional space provided at the end of the answer book. - When answering a question in the additional space, indicate clearly the question number in the column on the LHS. - Rule off after each answer. - Draw a neat line through any work/rough work that must not be marked.	<i>Skryf jou eksamennummer en sentrumnummer duidelik in die ruimtes verskaf en plak jou stafieskodeplakker in die ruimte verskaf.</i> <i>Onthou dat jou eie naam (of die naam van jou skool) nie op of in hierdie antwoordeboek mag voorkom nie.</i> <i>Beantwoord ALLE vrae in die ruimtes wat voorsien is.</i> <i>Geen bladsye mag uit hierdie antwoordeboek geskeur word nie.</i> <i>Lees die instruksies wat op jou eksamenrooster gedruk is, sorgvuldig deur, asook enige ander instruksies wat op elke eksamenvraestel gegee word.</i> <i>Geen antwoordeboek mag deur die kandidaat behou of uit die eksamenlokaal verwyder word nie.</i> <i>Skryf die antwoorde so duidelik moontlik met swart/blou ink. Laat die kantlyne oop.</i> <i>Skryf die nommers van die vrae wat jy beantwoord het op die voorblad van die antwoordeboek waar die punte aangebring word.</i> <i>In geval jy bykomende ruimte benodig vir jou antwoorde:</i> <i>Gebruik die bykomende ruimte wat aan die einde van die antwoordeboek voorsien word.</i> <i>As 'n vraag in die bykomende ruimte beantwoord word, dui duidelik die vraagnommer in die kolom aan die LK aan.</i> <i>Trek 'n lyn na elke antwoord.</i> <i>Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.</i>



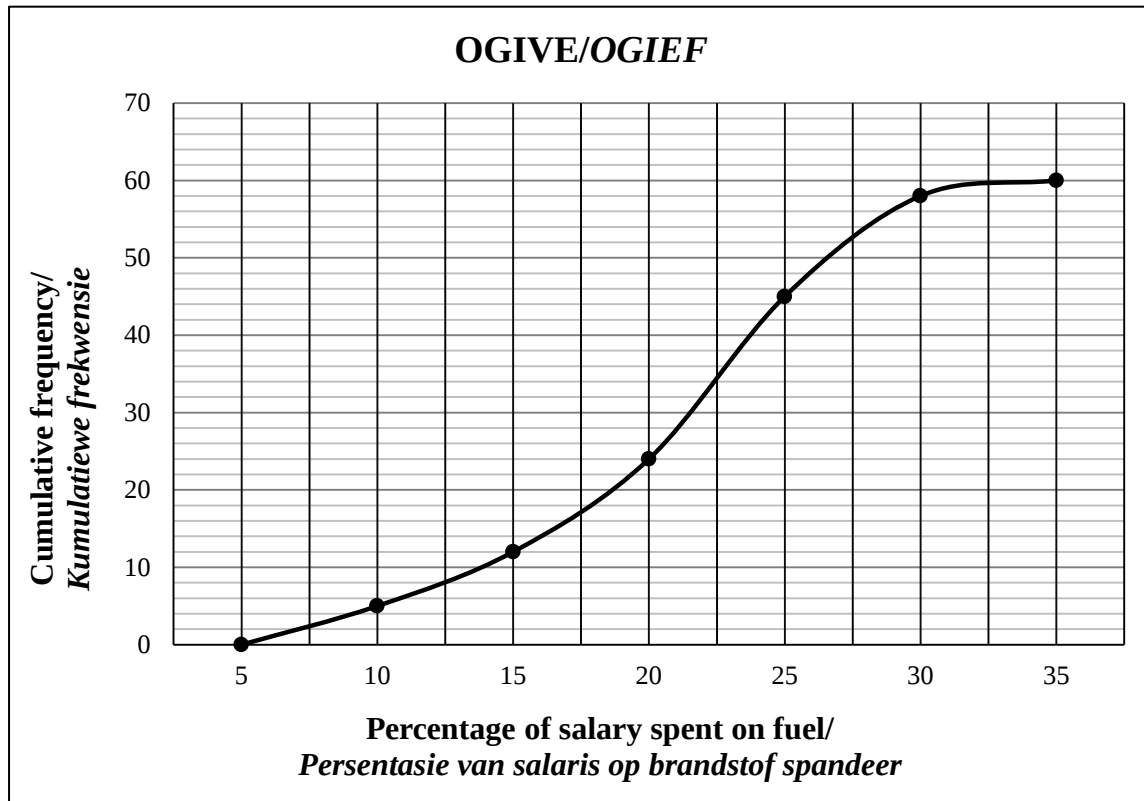
QUESTION/VRAAG 1

Popularity score (x)/ Gewildheidspunt (x)	32	89	35	82	50	59	81	40	79	65
Number of votes (y)/ Getal stemme (y)	9	22	10	21	11	15	20	12	19	16

	Solution/Oplossing	Marks Punte
1.1.1		(2)
1.1.2		(1)
1.2		(2)
1.3		(3)
1.4		(2)
1.5.1		(1)
1.5.2		(1)
		[12]



QUESTION/VRAAG 2



	Solution/Oplossing	Marks Punte
2.1		(1)
2.2		(1)
2.3		(2)
2.4		(2)

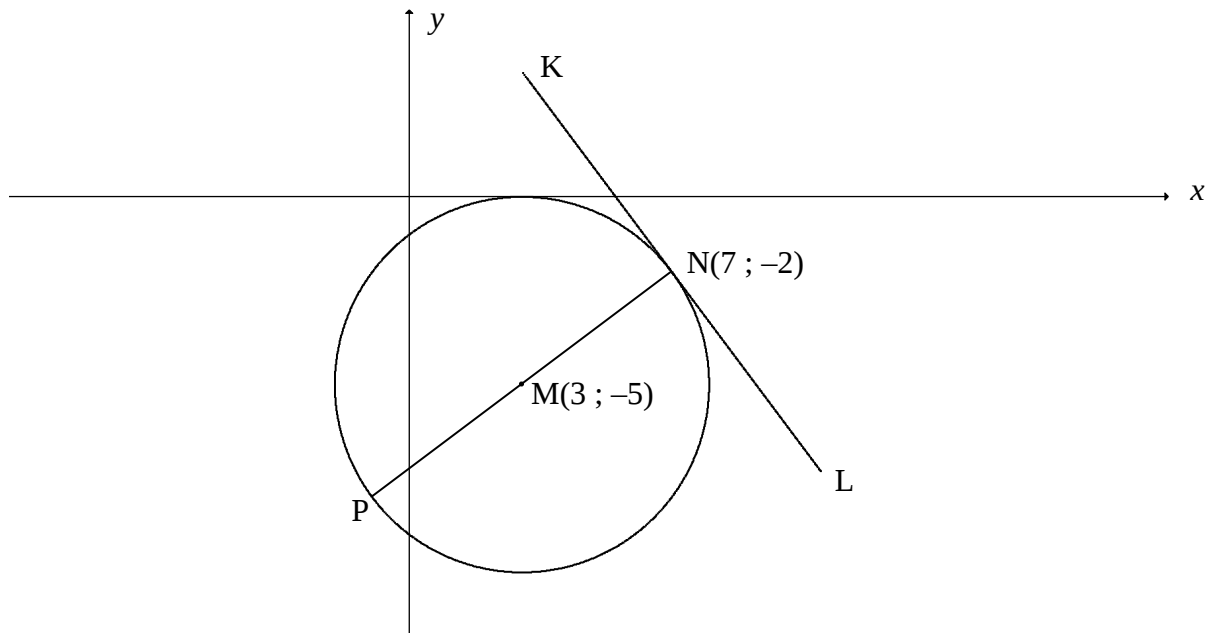


2.5		
		(2)
		[8]



	Solution/Oplossing	Marks Punte
3.1.4		(2)
3.2		(3)
3.3.1		(4)
3.3.2		(5)
		[20]



QUESTION/VRAAG 4

	Solution/Oplossing	Marks Punte
4.1		(2)
4.2.1		(3)
4.2.2		(5)



	Solution/Oplossing	Marks Punte
4.3		(4)
4.4.1		(2)
4.4.2		(4)
		[20]



QUESTION/VRAAG 5

	Solution/Oplossing	Marks Punte
5.1.1		(2)
5.1.2		(3)
5.1.3		(2)
5.2		(5)

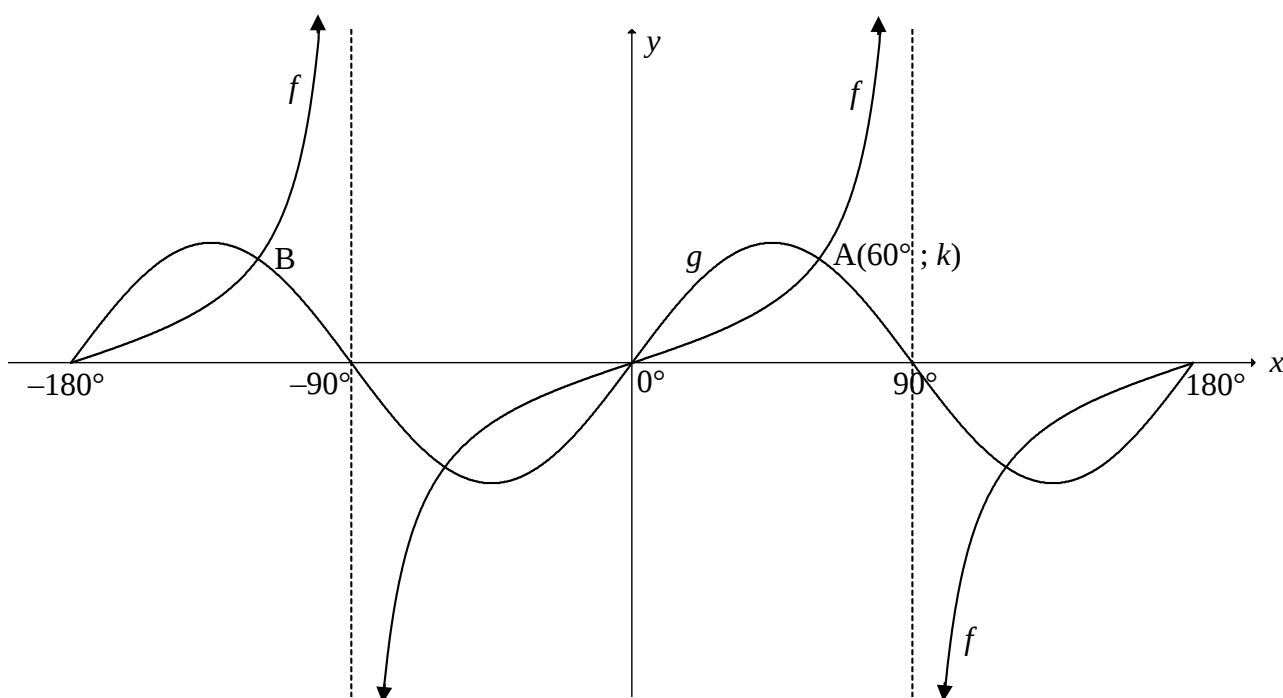


	Solution/Oplossing	Marks Punte
5.3		(6)
5.4.1		(4)
5.4.2		(3)



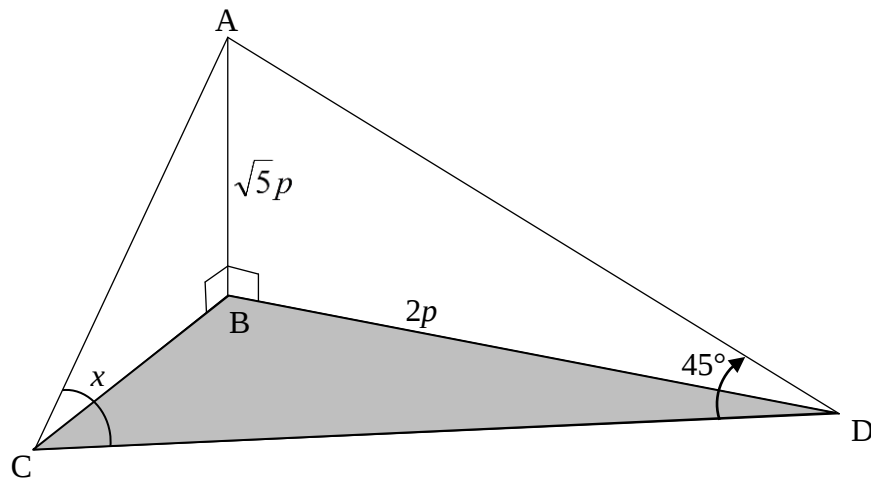
	Solution/Oplossing	Marks Punte
5.5.1		(4)
5.5.2		(1)
		[30]



QUESTION/VRAAG 6

	Solution/Oplossing	Marks Punte
6.1		(1)
6.2.1		(1)
6.2.2		(1)
6.3		(2)
6.4		(2)
6.5		(3)
		[10]



QUESTION/VRAAG 7

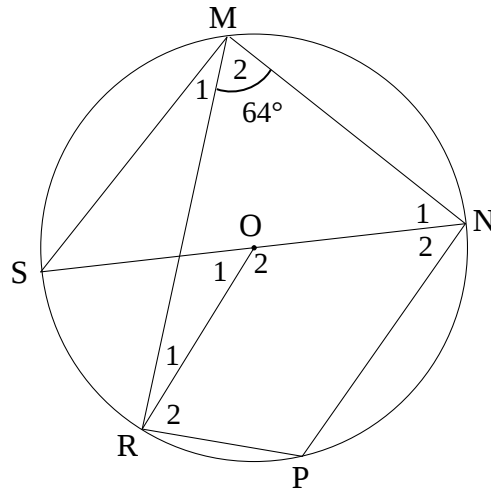
	Solution/Oplossing	Marks Punte
7.1		(2)
7.2		(5)
7.3		(3)
		[10]



Provide reasons for your statements in QUESTIONS 8, 9 and 10.
Verskaf redes vir jou bewerings in VRAAG 8, 9 en 10.

QUESTION/VRAAG 8

8.1

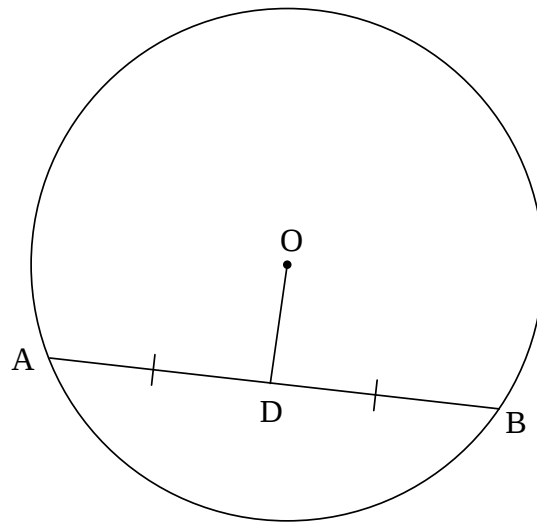


	Solution/Oplossing	Marks Punte
8.1.1		(2)
8.1.2		(2)
8.1.3		(2)



QUESTION/VRAAG 9

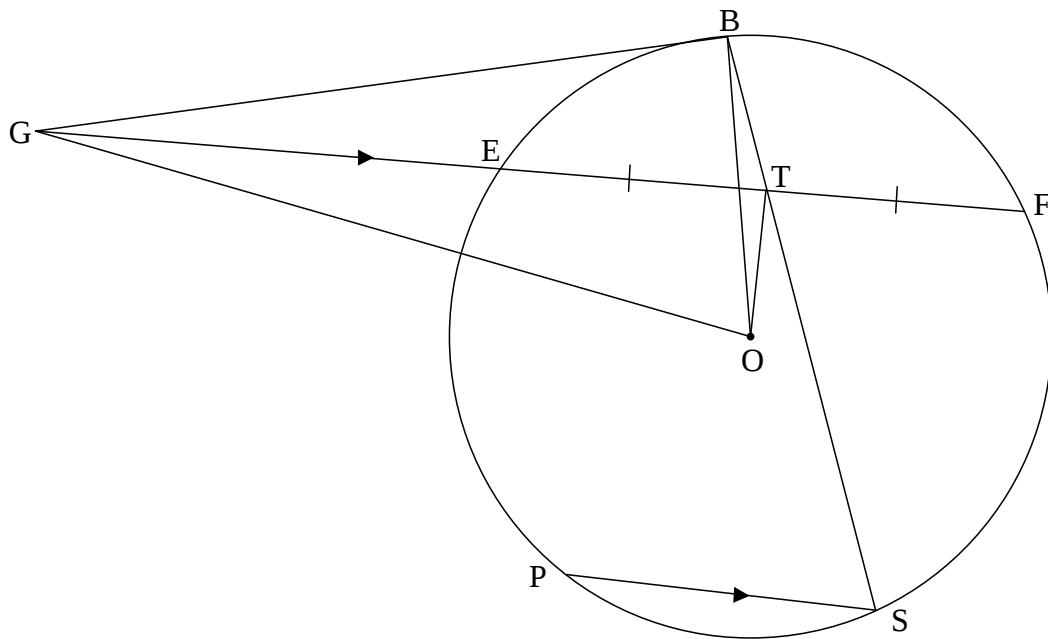
9.1



	Solution/Oplossing	Marks Punte
9.1		(5)



9.2

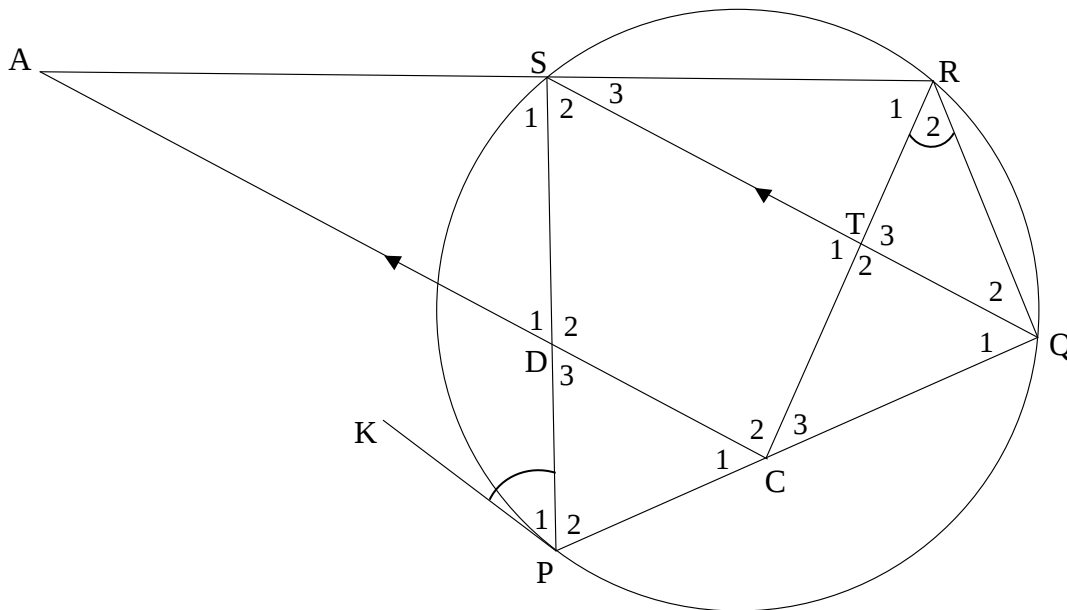


	Solution/Oplossing	Marks Punte
9.2.1		(5)



	Solution/Oplossing	Marks Punte
9.2.2		
		(4)
		[14]



QUESTION/VRAAG 10

	Solution/Oplissing	Marks Punte
10.1		
		(4)



	Solution/Oplissing	Marks Punte
10.2		(5)
10.3		(4)
		[13]





RE-MARK/RE-CHECK HERMERK/HERSIEN				
Question Vraag	Marks Punte			Initials Voorletters
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
TOTAL TOTAAL				
HASH TOTAL KAF- TOTAAL				