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basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Candidate Barcode label/Stafieskodeplakker

SC/NSC Answer Book
SS/NSS Antwoordeboek

Senior Certificate/National Senior Certificate/*Senior Sertifikaat/Nasionale Senior Sertifikaat (Grade 12/Graad 12)*

CENTRE NUMBER *SENTRUMNOMMER*	
EXAMINATION NUMBER *EKSAMENNOMMER*	
DATE *DATUM*	
BOOK NUMBER *BOEKNOMMER*	OF *VAN* BOOKS *BOEKE*
SUBJECT CODE *VAKKODE*	
PAPER NUMBER *VRAESTELNOMMER*	2
SUBJECT NAME *VAKNAAM*	**MATHEMATICS/*WISKUNDE***

MARKER/*NASIENER*			MODERATOR'S INITIALS IN RELEVANT BLOCK *MODERATOR SE VOORLETTERS IN RELEVANTE BLOKKIE*									
Question *Vraag*	Marks *Punte*	Marker's Code & Initials *Nasiener se kode & Voorletters*	Marks *Punte*	SM	Marks *Punte*	DCM *AHN*	Marks *Punte*	CM *HN*	Marks *Punte*	IM	Marks *Punte*	EM
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
		TOTAL *TOTAAL*										

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 24 pages./*Hierdie antwoordeboek bestaan uit 24 bladsye.*

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Please turn over/*Blaai om asseblief*

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PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY	*VOLG ASSEBLIEF HIERDIE INSTRUKSIES NOUKEURIG*
1. Clearly write your examination number and centre number in the space provided and attach your barcode label in the space provided.	*1. Skryf jou eksamennommer en sentrumnommer duidelik in die ruimtes verskaf en plak jou stafieskodeplakker in die ruimte verskaf.*
2. Remember that your own name (or the name of your school) may NOT appear anywhere on or in this answer book.	*2. Onthou dat jou eie naam (of die naam van jou skool) NIE op of in hierdie antwoordeboek mag voorkom NIE.*
3. Answer ALL questions in the spaces provided.	*3. Beantwoord ALLE vrae in die ruimtes wat verskaf is.*
4. NO pages may be torn from this answer book.	*4. GEEN bladsye mag uit hierdie antwoordeboek geskeur word NIE.*
5. Read the instructions printed on your timetable carefully as well as any other instructions which may be given in each question paper.	*5. Lees die instruksies, wat op jou eksamenrooster gedruk is, sorgvuldig deur, asook enige ander instruksies wat op elke vraestel gegee word.*
6. Candidates may NOT retain an answer book or remove it from the examination room.	*6. GEEN antwoordeboek mag deur die kandidaat behou of uit die eksamenlokaal verwyder word NIE.*
7. Answers must be written in black/blue ink as distinctly as possible. Do NOT write in the margins.	*7. Skryf die antwoorde so duidelik moontlik met swart/blou ink. Laat die kantlyne oop.*
8. Write the numbers of the questions you have answered on the front cover of the answer book where marks are to be recorded.	*8. Skryf die nommers van die vrae wat jy beantwoord het op die voorblad van die antwoordeboek waar die punte aangebring word.*
9. If you require additional space for your answers: 9.1 Use the additional space provided at the end of the answer book. 9.2 When answering a question in the additional space, clearly indicate the question number in the column on the LHS. 9.3 Rule off after each answer.	*9. In geval jy bykomende ruimte benodig vir jou antwoorde:* *9.1 Gebruik die bykomende ruimte wat aan die einde van die antwoordeboek verskaf word.* *9.2 As 'n vraag in die bykomende ruimte beantwoord word, dui duidelik die vraagnommer in die kolom aan die LK aan.* *9.3 Trek 'n lyn na elke antwoord.*
10. Draw a neat line through any work/rough work that must not be marked.	*10. Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.*

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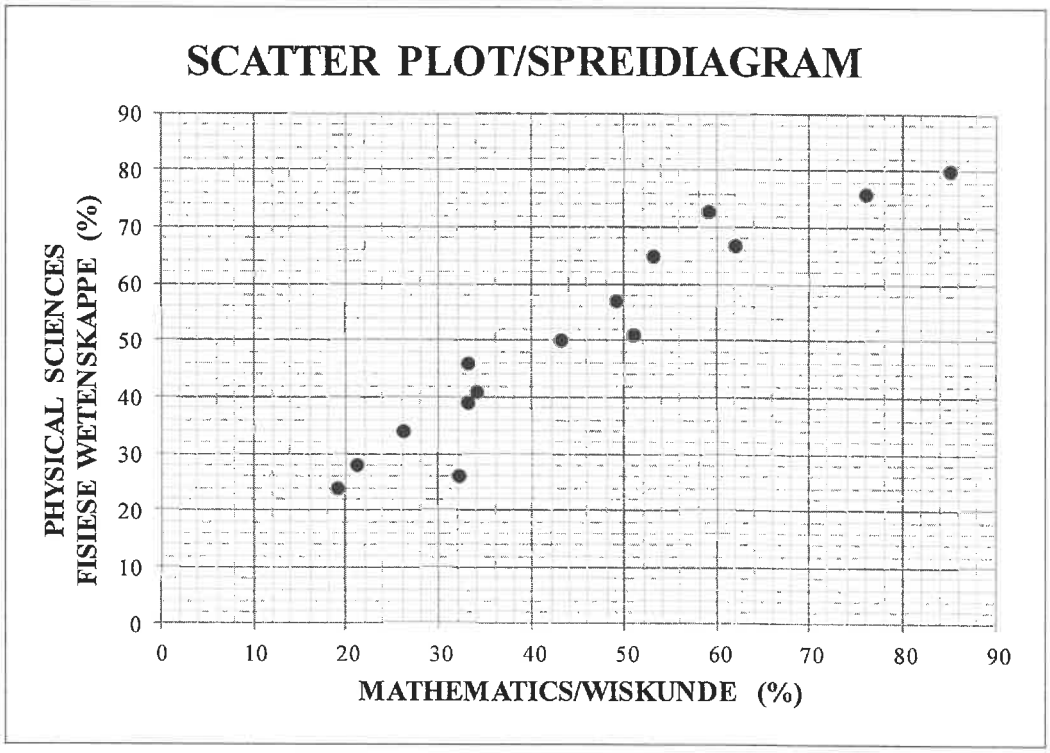
QUESTION/*VRAAG* 1

Mathematics ***Wiskunde*** **(as %)**	26	62	21	33	53	76	32	59	43	33	49	51	19	34	85
Physical Sciences ***Fisiese Wetenskappe*** **(as %)**	34	67	28	46	65	76	26	73	50	39	57	51	24	41	80

	Solution/*Oplossing*	**Marks** ***Punte***
1.1		(3)
1.2		(2)
1.3		(2)

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	Solution/*Oplossing*	**Marks** ***Punte***
1.4		(1)
1.5		(1)
1.6		(1)
		[10]

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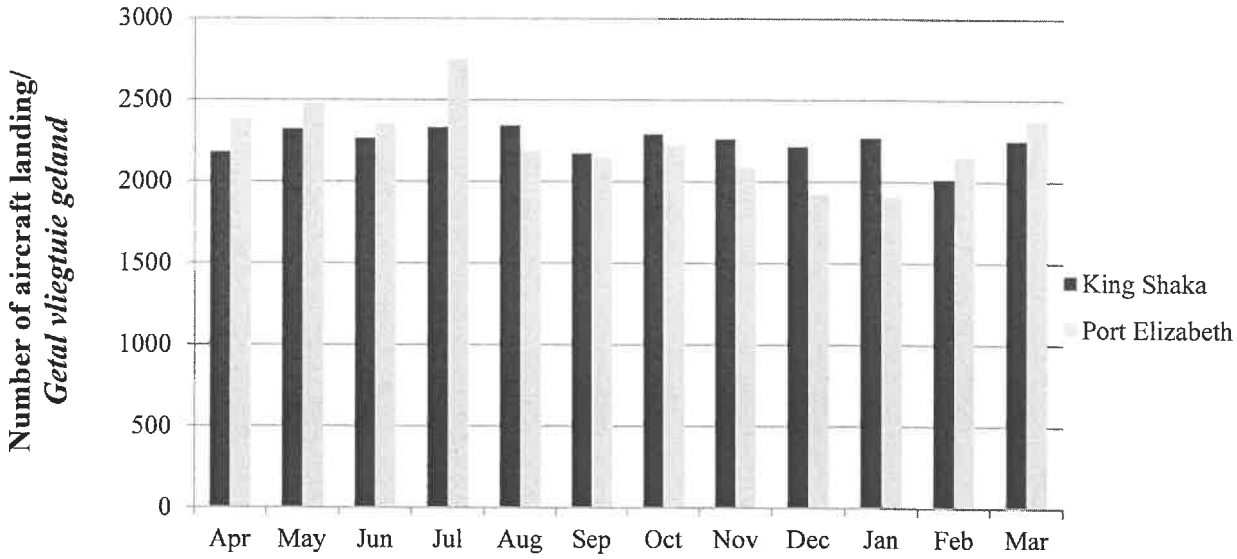
QUESTION/*VRAAG* 2

Number of aircraft landing at the King Shaka International airport and the Port Elizabeth Airport for the period April 2017 to March 2018/
Getal vliegtuie wat in die tydperk April 2017 tot Maart 2018 op die King Shaka Internasionale Lughawe en die Port Elizabeth-lughawe geland het



Source/Bron: http://www.airports.co.za/airports/statistics/aircraft

	Solution/*Oplossing*	**Marks** ***Punte***
2.1		(1)
2.2		(2)
2.3		(2)
2.4		(3)
2.5		(1)
		[9]

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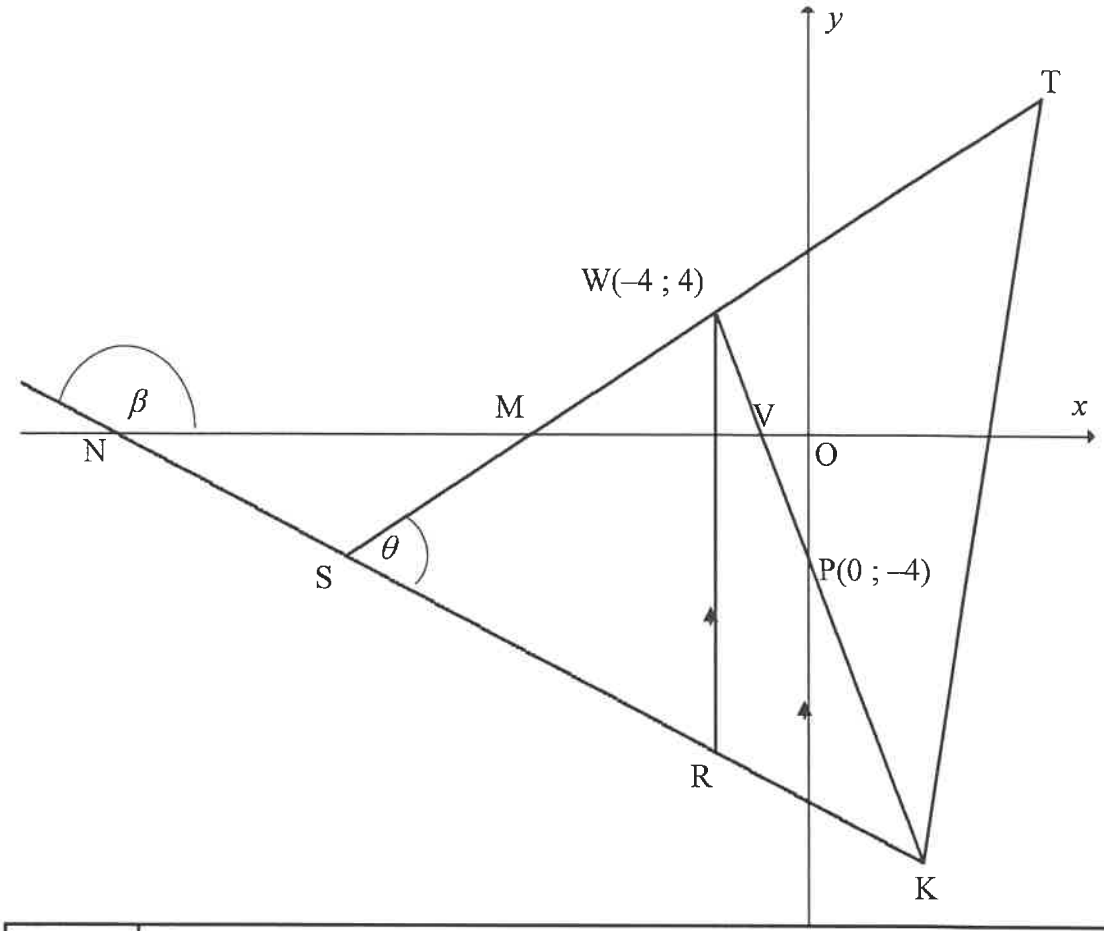
QUESTION/*VRAAG* 3



	Solution/*Oplossing*	**Marks *Punte***
3.1		(2)
3.2		(2)
3.3		(4)

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	Solution/*Oplossing*	**Marks** ***Punte***
3.4		(4)
3.5		(5)
3.6		(4)
		[21]

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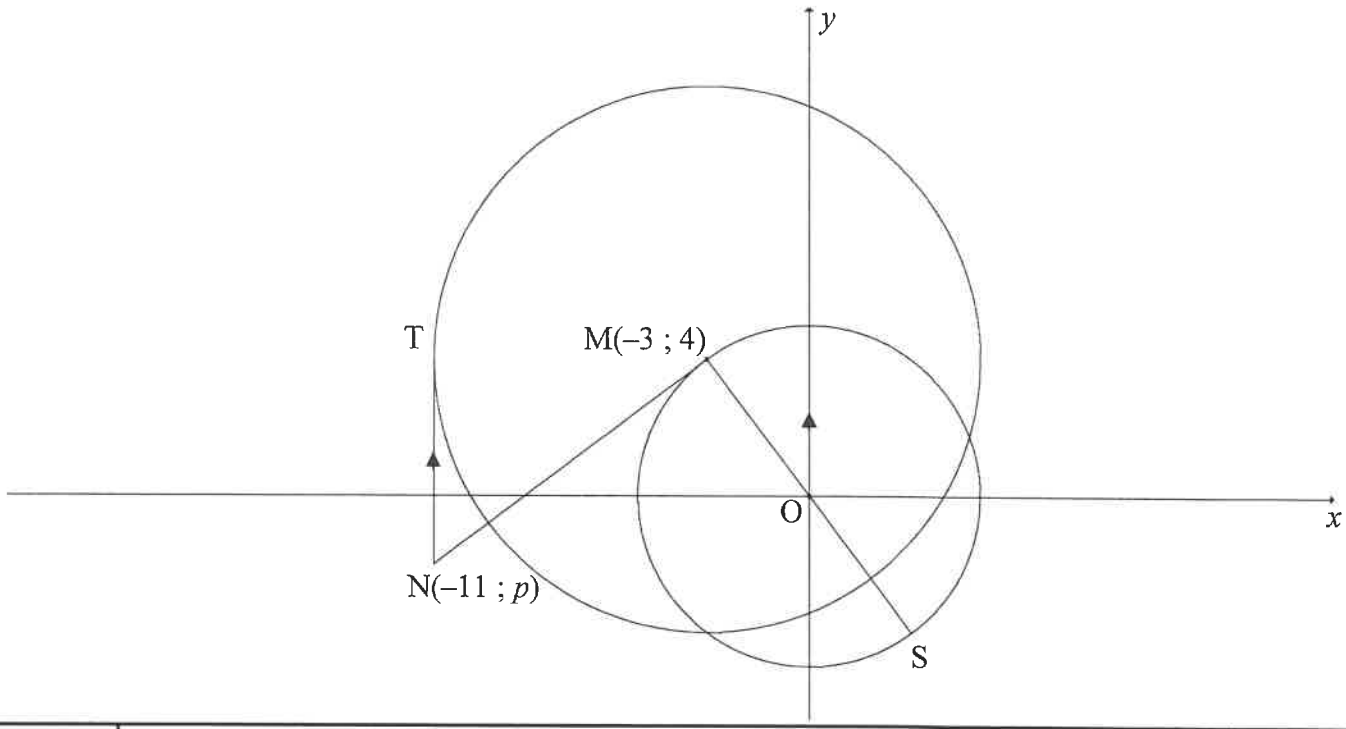
QUESTION/*VRAAG* 4



	Solution/*Oplossing*	**Marks** ***Punte***
4.1		(2)
4.2		(3)
4.3		(4)

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	Solution/*Oplossing*	**Marks** ***Punte***
4.4		(5)
4.5		(5)
		[19]

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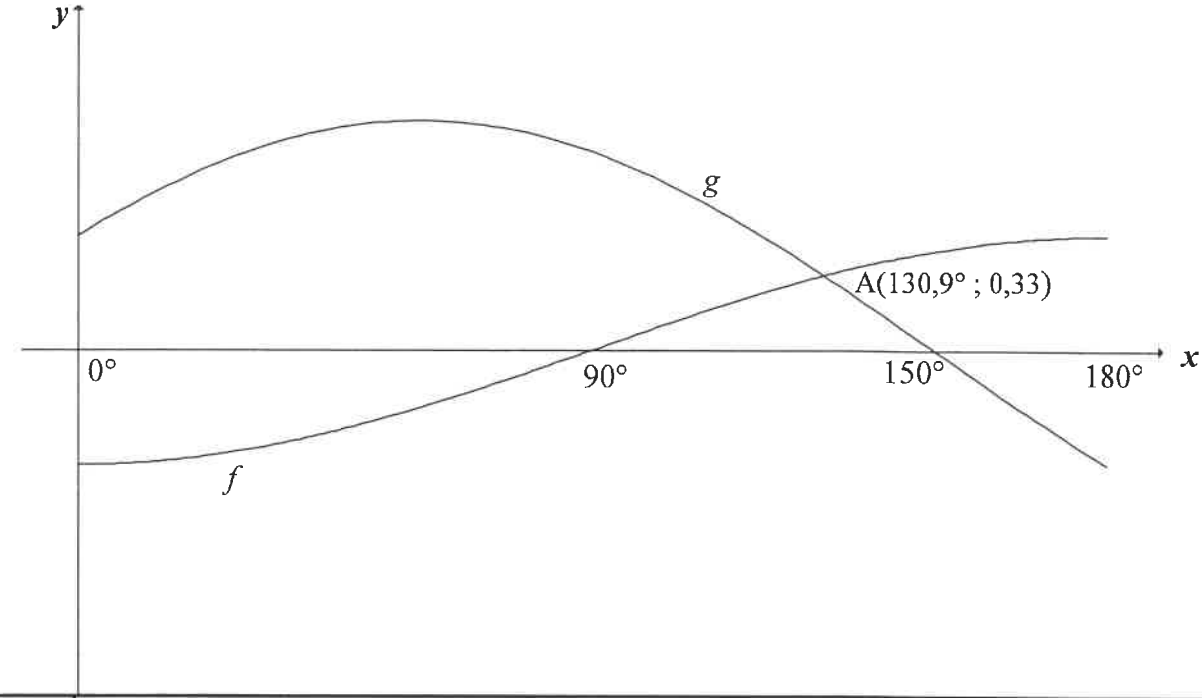
QUESTION/*VRAAG* 5



	Solution/*Oplossing*	Marks *Punte*
5.1		(1)
5.2		(1)
5.3		(1)
5.4.1		(1)
5.4.2		(4)
		[8]

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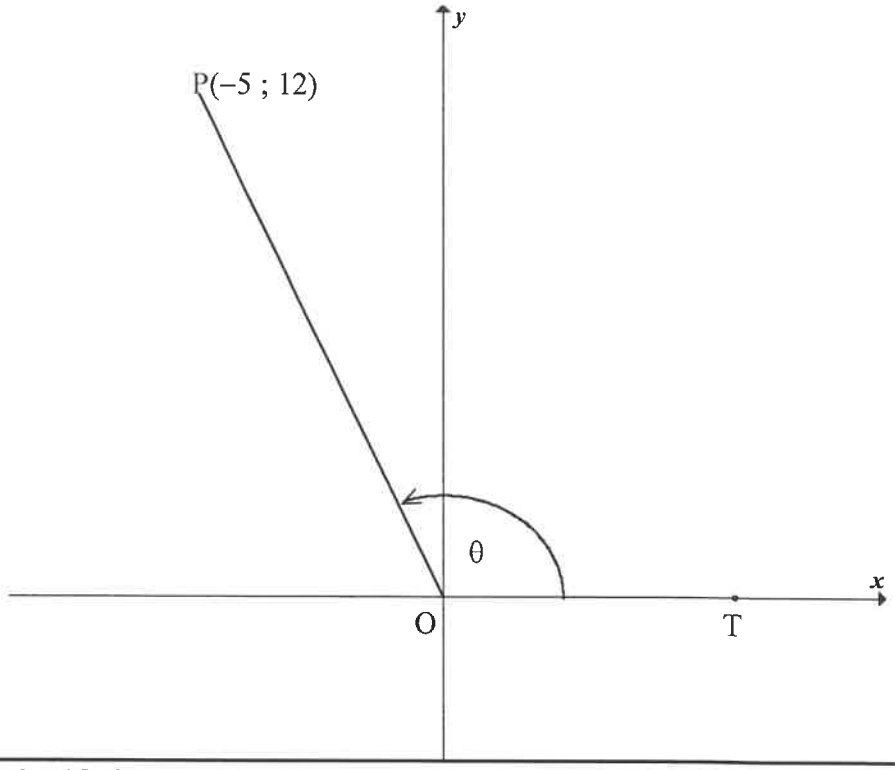
QUESTION/*VRAAG* 6



	Solution/*Oplossing*	**Marks** ***Punte***
6.1.1		(1)
6.1.2		(3)
6.1.3		(4)

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6.2		(5)
6.3		(6)

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6.4		(5)
		[24]

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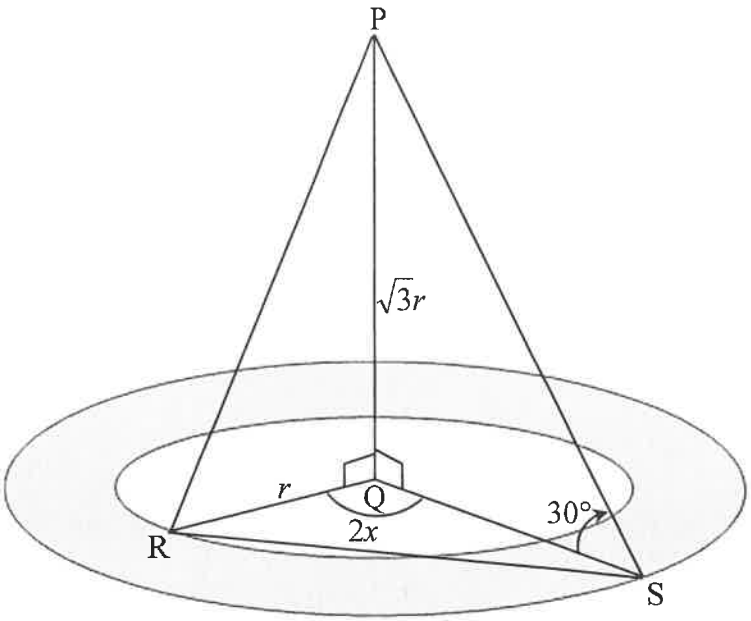
QUESTION/*VRAAG* 7



	Solution/*Oplossing*	**Marks** ***Punte***
7.1		(3)
7.2		(2)
7.3		(3)

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7.4		(2)
		[10]

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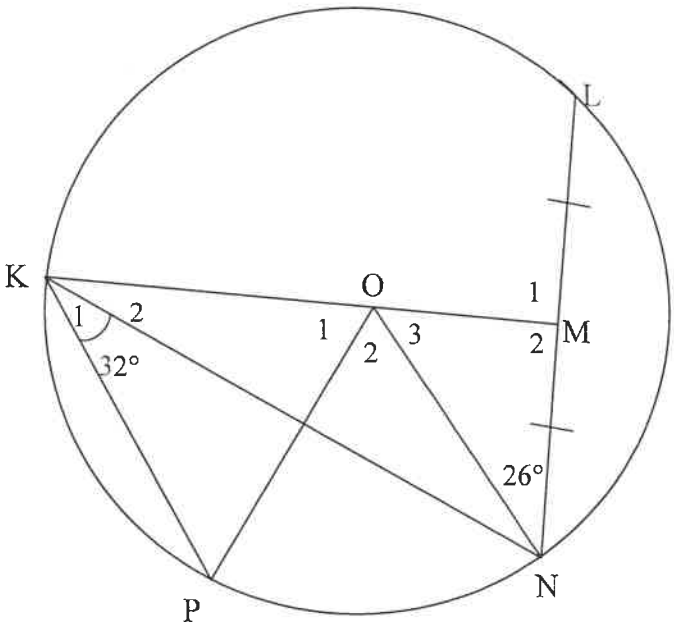
Give reasons for your statements in QUESTIONS 8, 9 and 10.
Verskaf redes vir jou bewerings in VRAAG 8, 9 en 10.

QUESTION/*VRAAG* 8

8.1



	Solution/*Oplossing*	**Marks** ***Punte***
8.1.1(a)		(2)
8.1.1(b)		(4)
8.1.2		(3)

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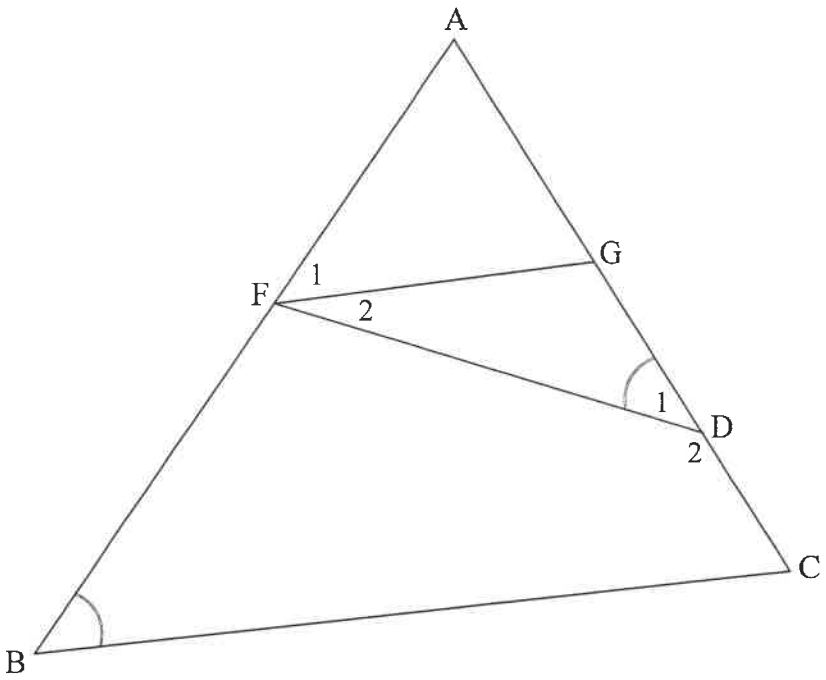
8.2



	Solution/*Oplossing*	**Marks** ***Punte***
8.2.1		(4)
8.2.2		(4)
		[17]

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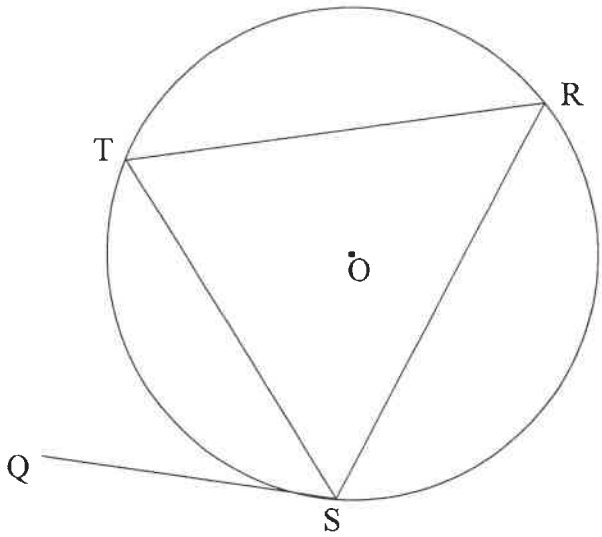
QUESTION/*VRAAG* 9

9.1



	Solution/*Oplossing*	**Marks *Punte***
9.1		(5)

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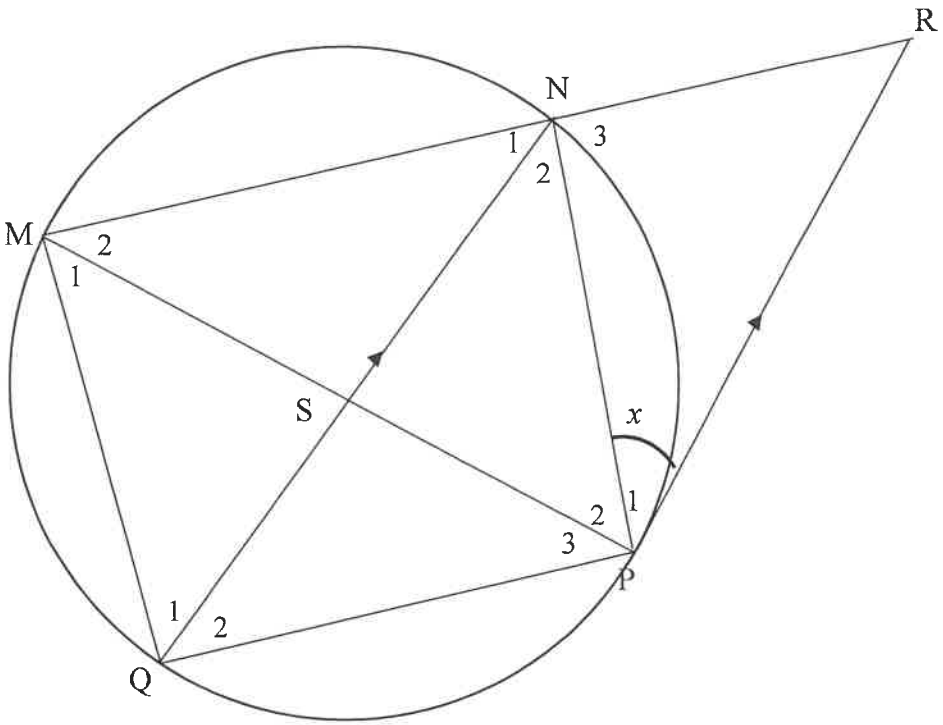
9.2



	Solution/*Oplossing*	**Marks *Punte***
9.2.1(a)		(2)
9.2.1(b)		(2)
9.2.2		

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	Solution/*Oplossing*	**Marks** ***Punte***
9.2.2 (contd)		(6)
		[15]

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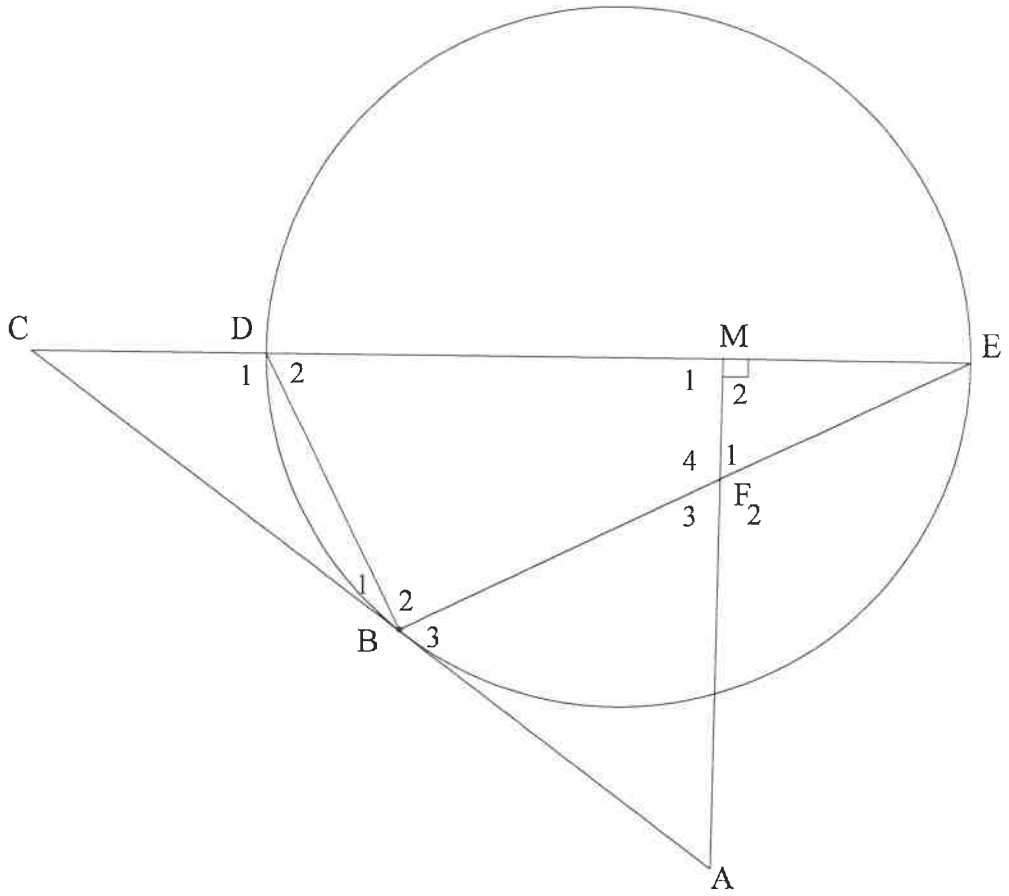
QUESTION/*VRAAG* 10



	Solution/*Oplossing*	**Marks** ***Punte***
10.1.1		(3)
10.1.2		(4)

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	Solution/*Oplossing*	**Marks** ***Punte***
10.1.3		(3)
10.2.1		(3)
10.2.2		(4)
		[17]

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	Additional space/*Bykomende ruimte*	**Marks** ***Punte***

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	Additional space/*Bykomende ruimte*	**Marks** ***Punte***

TOTAL/*TOTAAL*: 150

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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*				

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