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.

* M A T H E 4 *

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

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EASTERN CAPE

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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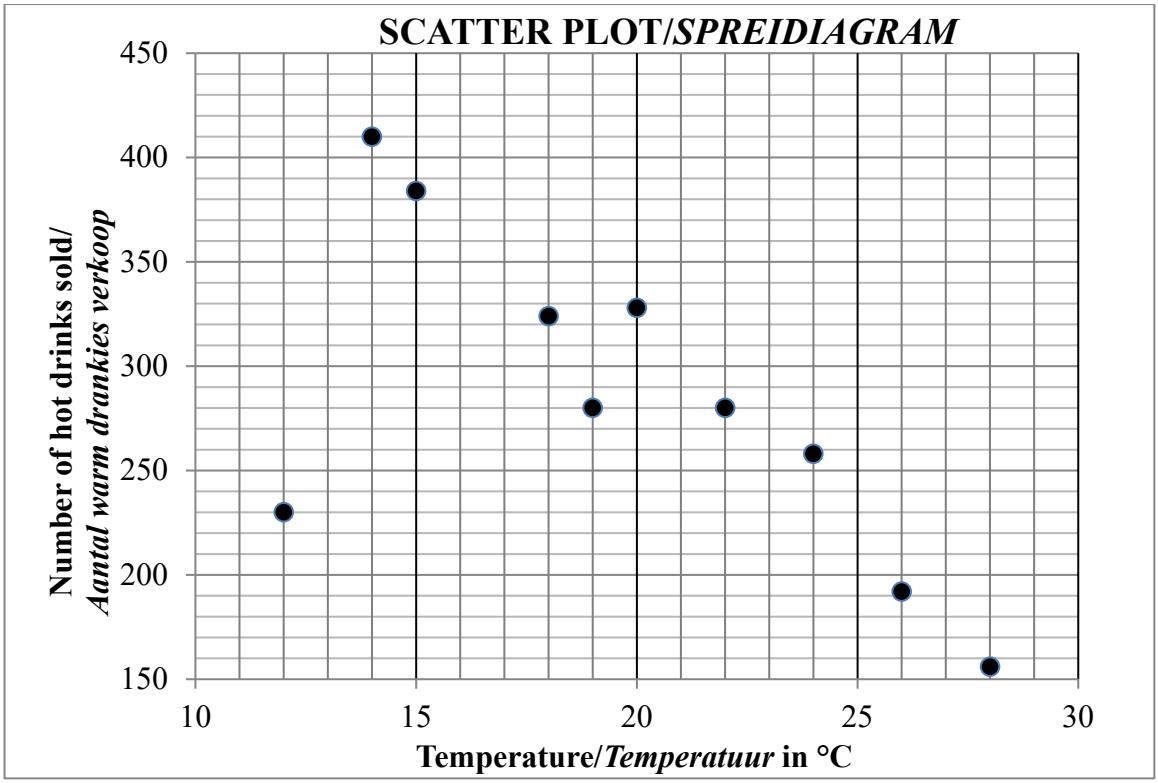
QUESTION/*VRAAG* 1

Temperature/*Temperatuur* (in °C)	14	24	26	18	20	28	22	15	12	19
Number of hot drinks sold *Aantal warm drankies verkoop*	410	258	192	324	328	156	280	384	230	280



	Solution/*Oplossing*	**Marks *Punte***
1.1		(1)
1.2		(3)
1.3		(3)
1.4		(1)
		[8]

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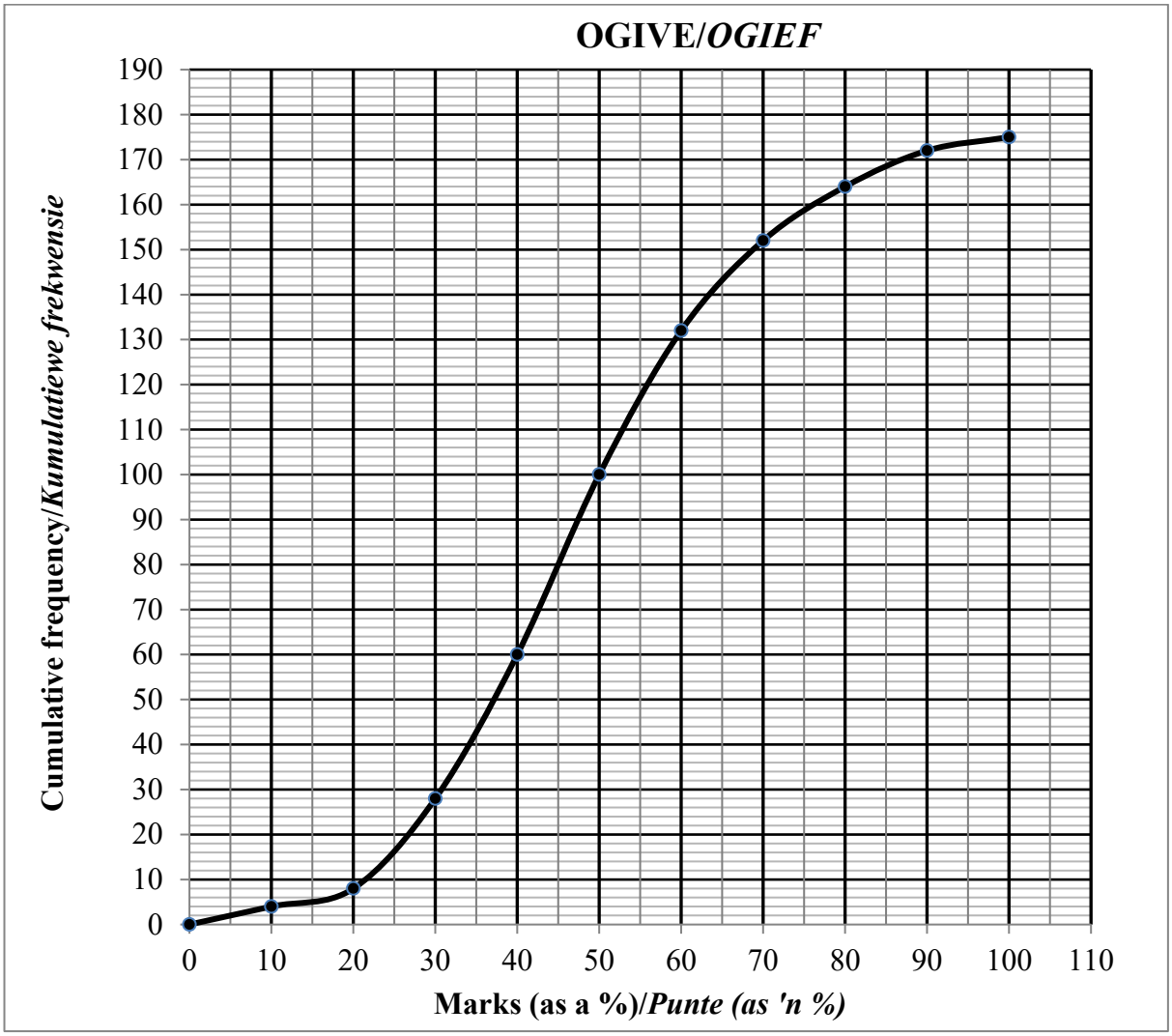
QUESTION/*VRAAG* 2

2.1



	Solution/*Oplossing*	Marks *Punte*
2.1.1		
		(1)
2.1.2		
		(1)
2.1.3		
		(2)

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2.2

Marks (as a %) ***Punte (as 'n %)***	62	58	78	85	74	48	74	84	100	46	80	92	60	90	92

	Solution/*Oplossing*	**Marks** ***Punte***
2.2.1		
		(2)
2.2.2		
		(1)
2.2.3		
		(2)
2.3		
		(3)
		[12]

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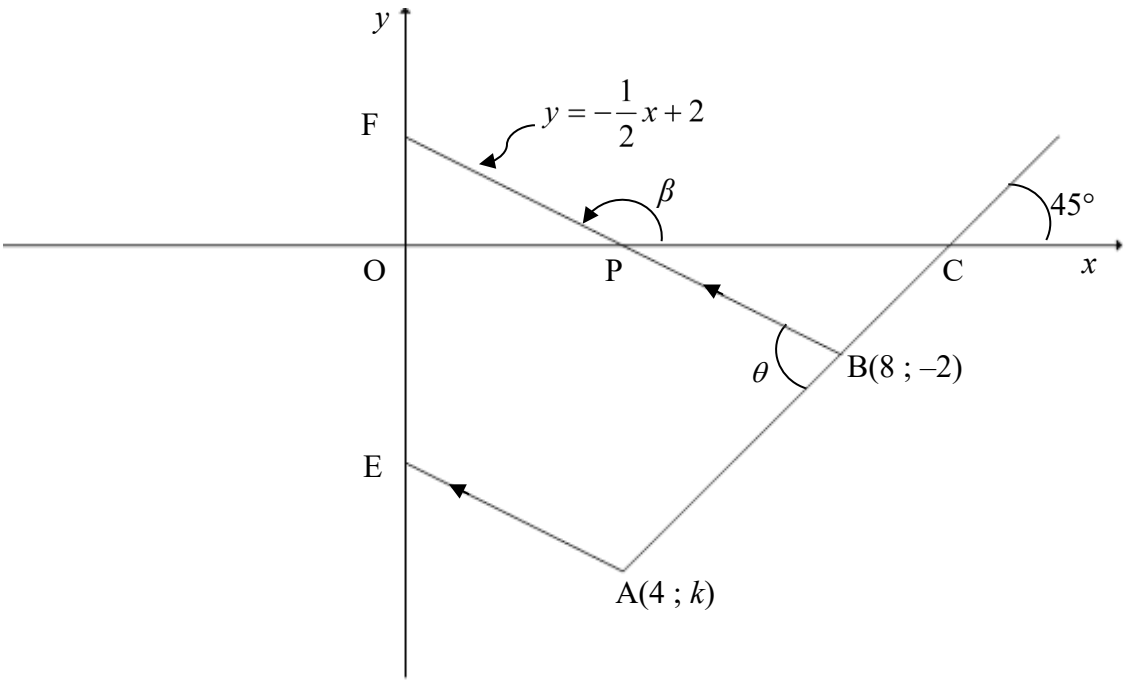
QUESTION/*VRAAG* 3



	Solution/*Oplossing*	Marks *Punte*
3.1		
		(1)
3.2		
		(2)
3.3		
		(3)

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	Solution/*Oplossing*	**Marks** ***Punte***
3.4.1		
		(3)
3.4.2		
		(3)
3.4.3		
		(4)
3.5		
		(4)
		[20]

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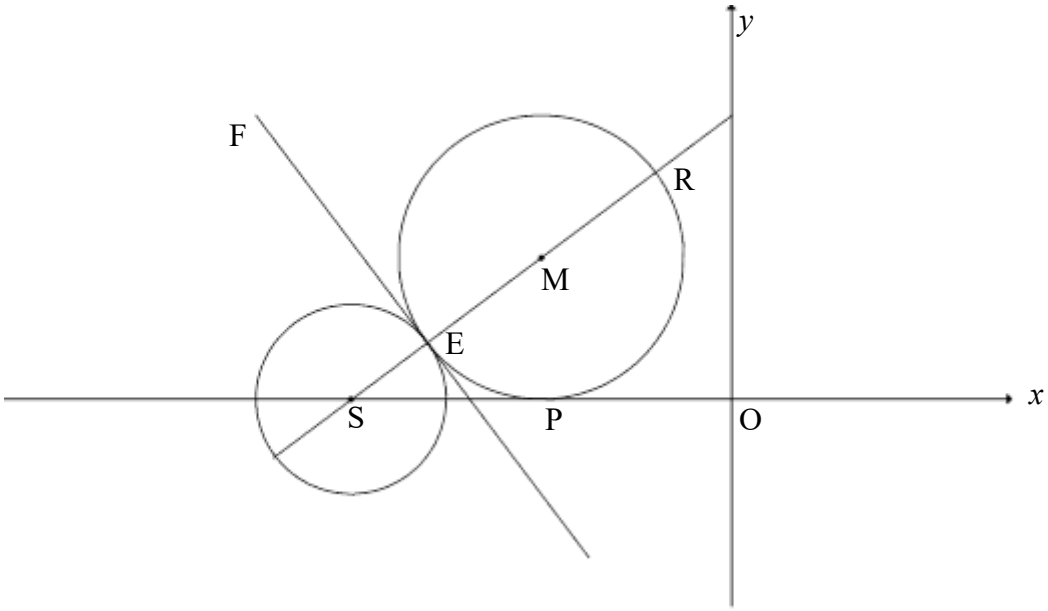
QUESTION/*VRAAG* 4



	Solution/*Oplossing*	**Marks** ***Punte***
4.1.1		
		(2)
4.1.2		
		(1)
4.2.1		
		(2)
4.2.2		

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	Solution/*Oplossing*	**Marks** ***Punte***
4.2.2 (cont./ *verv.*)		
		(3)
4.2.3		
		(4)
4.2.4		
		(2)
4.3		
		(5)
		[19]

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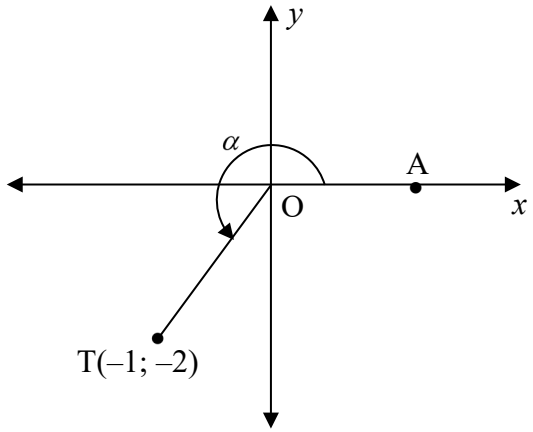
QUESTION/*VRAAG* 5

5.1



	Solution/*Oplossing*	**Marks** ***Punte***
5.1.1		
		(1)
5.1.2		
		(2)
5.1.3		
		(4)

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	Solution/*Oplossing*	**Marks** ***Punte***
5.2		
		(4)
5.3.1		
		(4)
5.3.2		
		(2)
5.4		

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	Solution/*Oplossing*	**Marks** ***Punte***
5.4 (cont./ *verv.*)		
		(5)
5.5		
		(5)
		[27]

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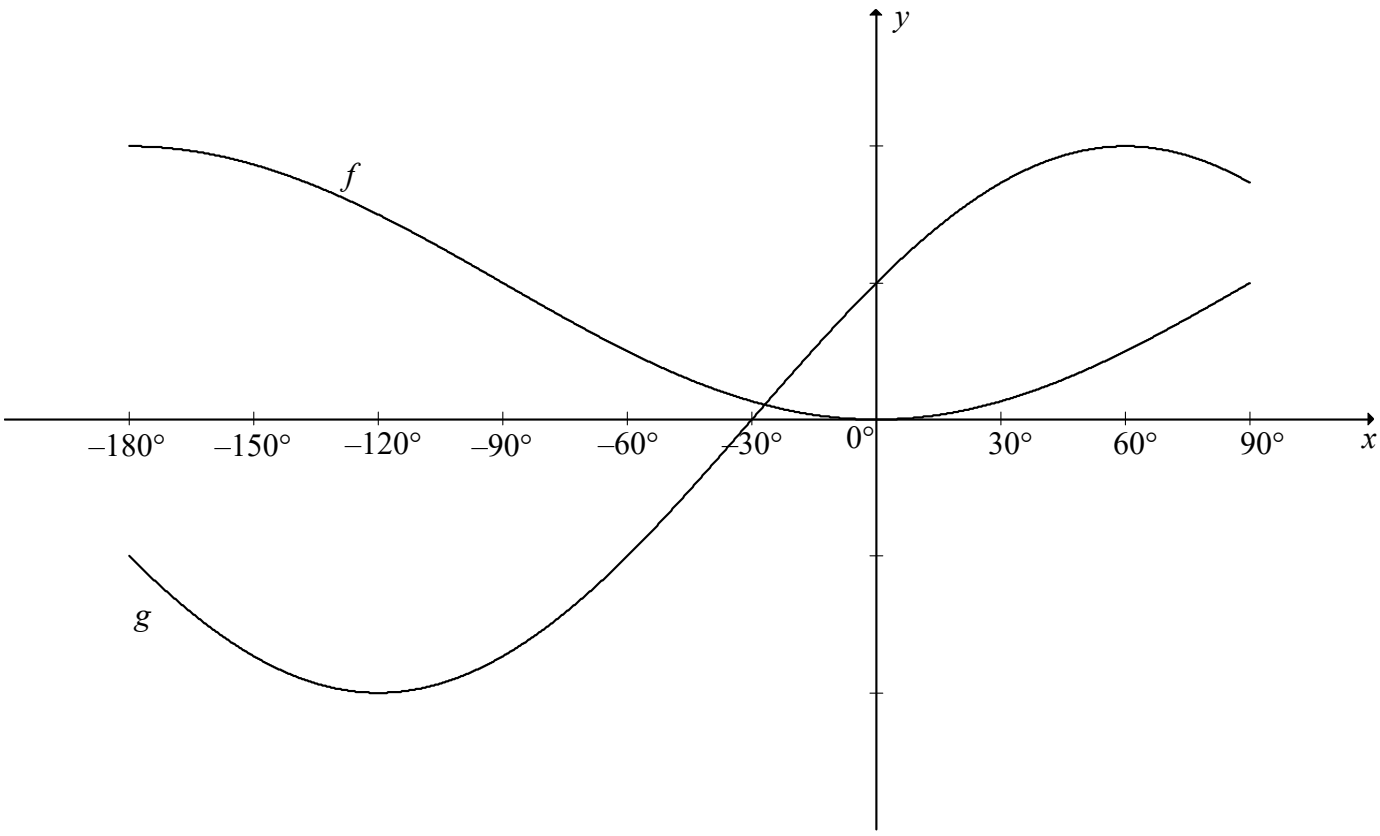
QUESTION/*VRAAG* 6



	Solution/*Oplossing*	**Marks** ***Punte***
6.1.1		
		(2)
6.1.2		
		(2)
6.2		
		(2)
		[6]

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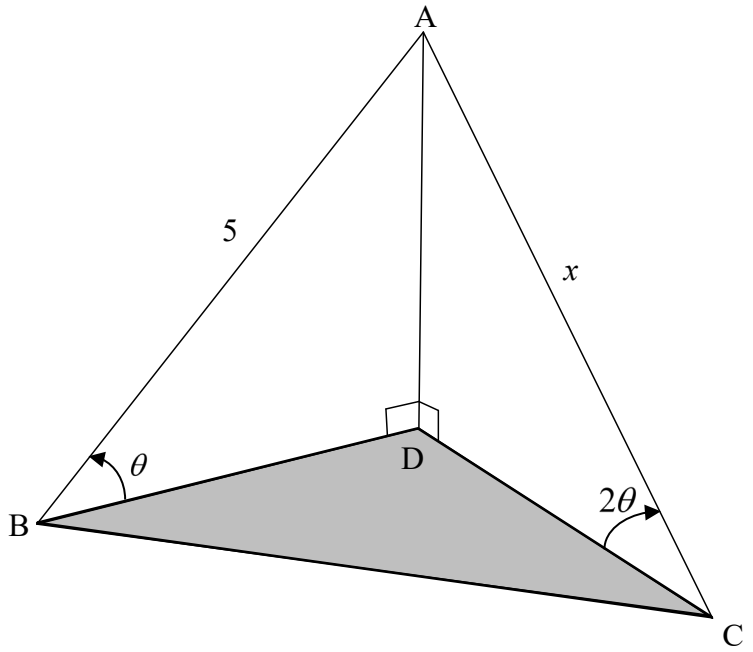
QUESTION/*VRAAG* 7



	Solution/*Oplossing*	**Marks** ***Punte***
7.1		
		(5)
7.2		
		(3)
		[8]

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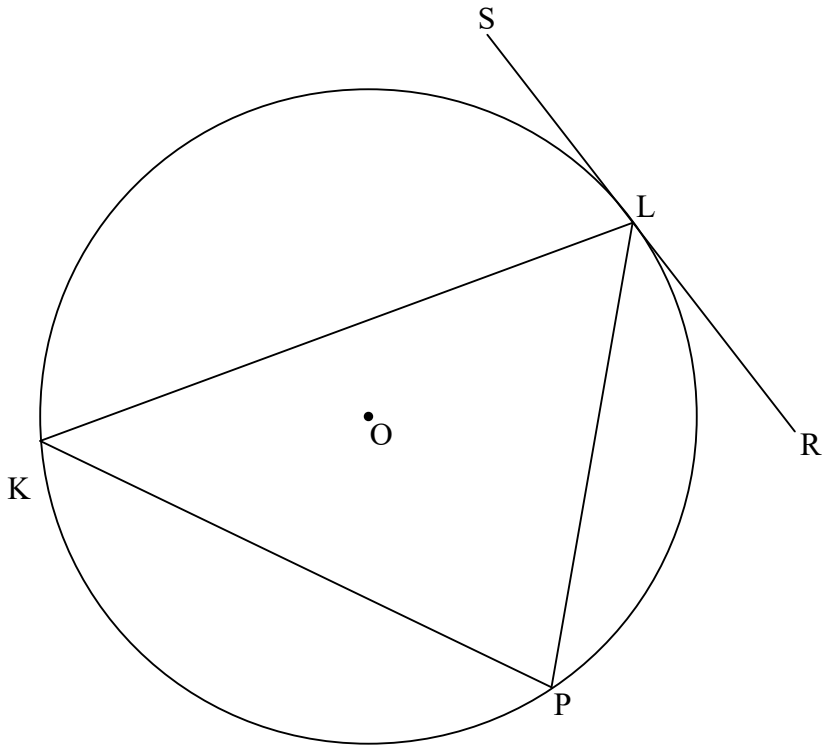
Give reasons for your statements in QUESTIONS 8, 9 and 10.
Verskaf redes vir jou bewerings in VRAAG 8, 9 en 10.

QUESTION/*VRAAG* 8

8.1



	Solution/*Oplossing*	**Marks** ***Punte***
		(6)

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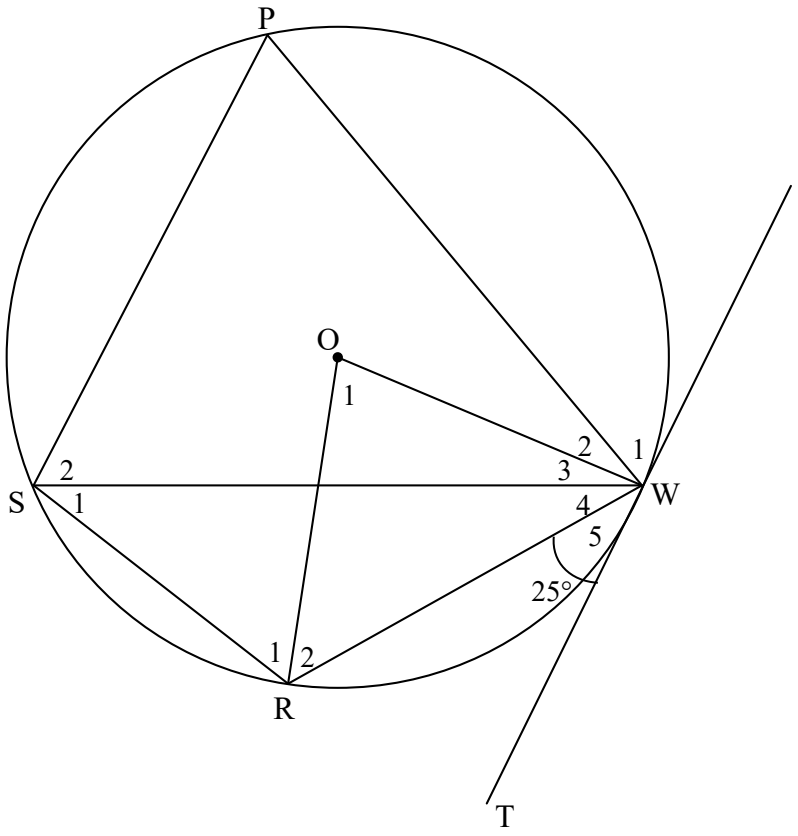
8.2



	Solution/*Oplossing*	**Marks** ***Punte***
8.2.1(a)		
		(2)
8.2.1(b)		
		(2)

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	Solution/*Oplossing*	**Marks** ***Punte***
8.2.1(c)		
		(5)
8.2.2		
		(3)

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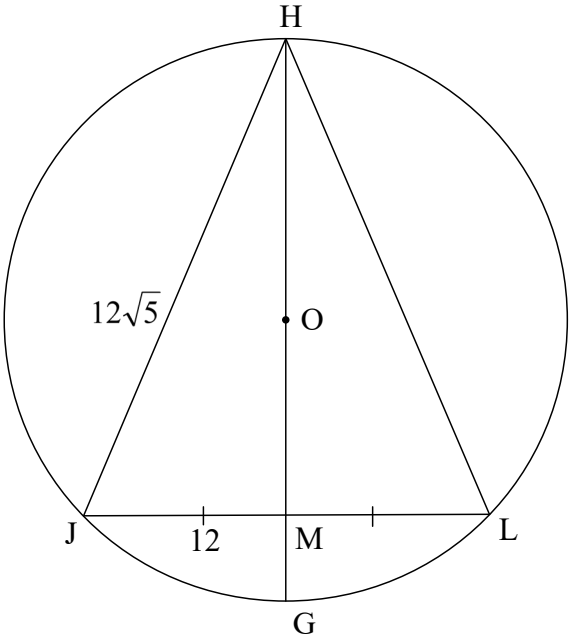
8.3



	Solution/*Oplossing*	**Marks** ***Punte***
8.3.1		
		(2)
8.3.2		
		(5)
		[25]

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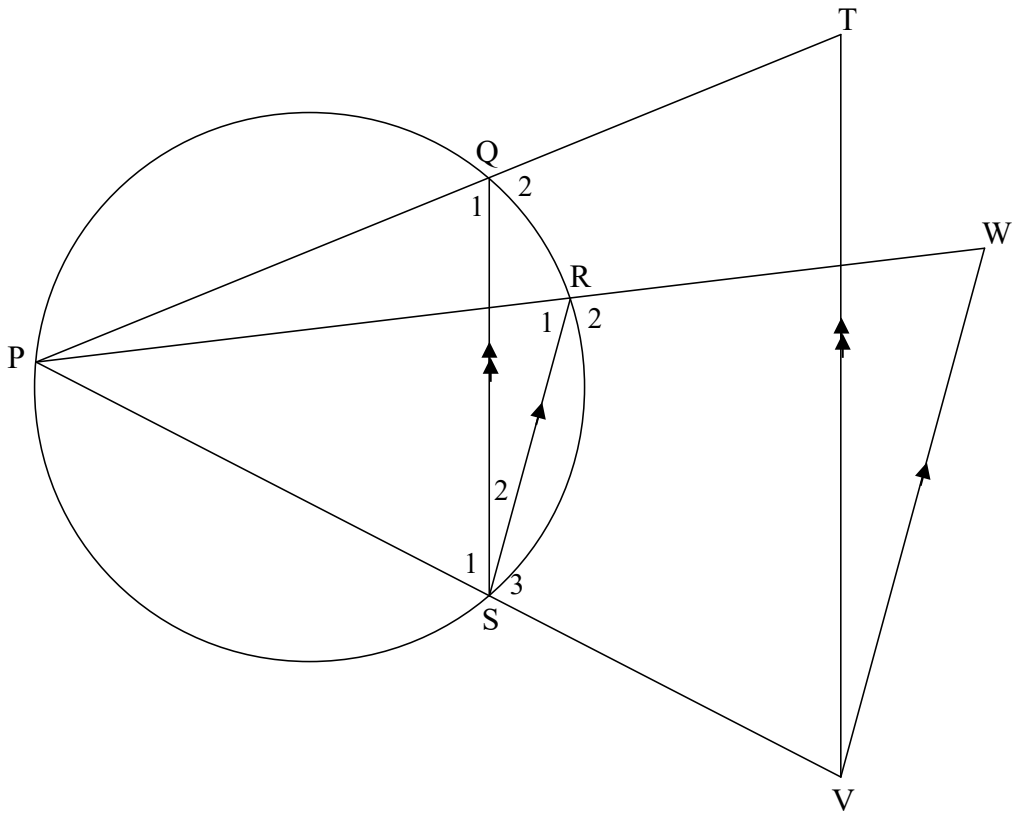
QUESTION/*VRAAG* 9



	Solution/*Oplossing*	**Marks** ***Punte***
9.1		
		(3)
9.2		
		(5)
		[8]

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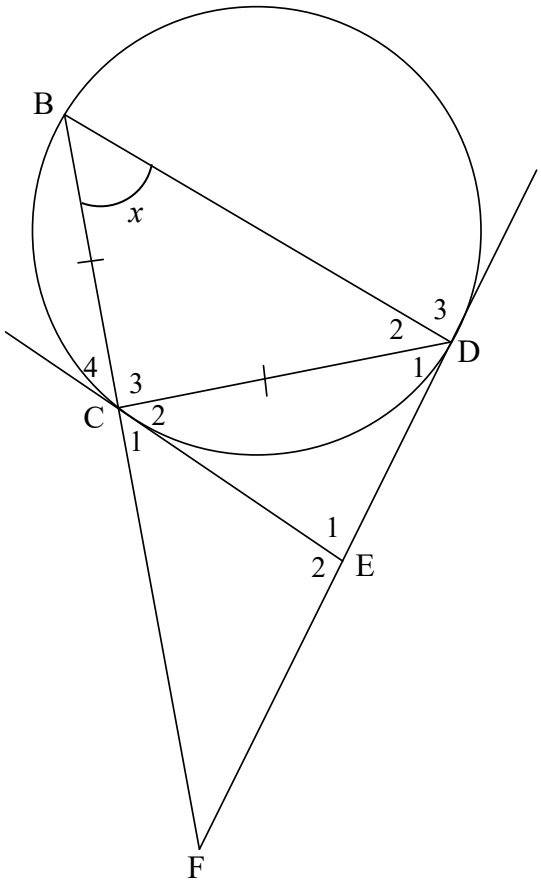
QUESTION/*VRAAG* 10



	Solution/*Oplossing*	**Marks** ***Punte***
10.1.1		
		(5)
10.1.2		
		(3)

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	Solution/*Oplossing*	**Marks** ***Punte***
10.2.1		
		(3)
10.2.2		
		(6)
		[17]

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

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

TOTAL/*TOTAAL*: 150

a

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RE-MARK/RE-CHECK *HERMERK/HERSIEN*				
Question *Vraag*	**Marks** *Punte*			**Initials** *Voorletters*
TOTAL *TOTAAL*				
HASH TOTAL *KAF-TOTAAL*				

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