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 Department
Basic Education
REPUBLIC OF SOUTH AFRICA

Candidate Barcode Label/Stafieskodeplakker

 National Senior Certificate Answer Book
Nasionale Senior Sertifikaat-antwoordeboek

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

 CENTRE NUMBER
SENTRUMNUMMER

 EXAMINATION NUMBER
EKSAMENNUMMER

 DATE
DATUM

 SUBJECT CODE
VAKKODE

 BOOK NUMBER
BOEKNUMMER

 OF
VAN

 BOOKS
BOEKE

 PAPER NUMBER
VRAESTELNUMMER

2

 SUBJECT NAME
VAKNAAM

MATHEMATICS/WISKUNDE

 Sequence No. on mark sheet
Volgnommer op puntestaat

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												
11												
TOTAL TOTAAL												

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

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

This answer book consists of 27 pages./Hierdie antwoordeboek bestaan uit 27 bladsye.

FOLLOW THESE INSTRUCTIONS CAREFULLY	VOLG HIERDIE INSTRUKSIES NOUKEURIG
1. Clearly write your examination number and centre number in the spaces provided and attach your barcode label in the space provided. 2. Remember that your own name (or the name of your school) may not appear anywhere on or in this answer book. 3. No pages may be torn from this answer book. 4. Read the instructions printed on your timetable carefully as well as any other instructions which may be given in each examination paper. 5. Candidates may not retain any answer book or remove them from the examination room. 6. Answers must be written in black/blue ink as distinctly as possible. 7. Draw a neat line through any work/rough work that must not be marked.	1. Skryf jou eksamennommer en sentrumnommer duidelik in die ruimtes soos verskaf en plak jou stafieskodeplakker in die ruimte soos verskaf. 2. Onthou dat jou eie naam (of die naam van jou skool) nie op of in hierdie antwoordeboek mag voorkom nie. 3. Geen bladsye mag uit hierdie antwoordeboek geskeur word nie. 4. Lees die instruksies wat op jou eksamenrooster gedruk is, sorgvuldig deur, asook enige ander instruksies wat in elke eksamenvraestel gegee word. 5. Geen antwoordeboek mag deur die kandidaat behou of uit die eksamenlokaal verwyder word nie. 6. Skryf die antwoorde so duidelik moontlik met swart/blou. 7. Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.

QUESTION/VRAAG 1

DAYS/DAE	1	2	3	4	5	6	7	8	9	10
UNITS OF BLOOD EENHEDE BLOED	45	59	65	73	79	82	91	99	101	106

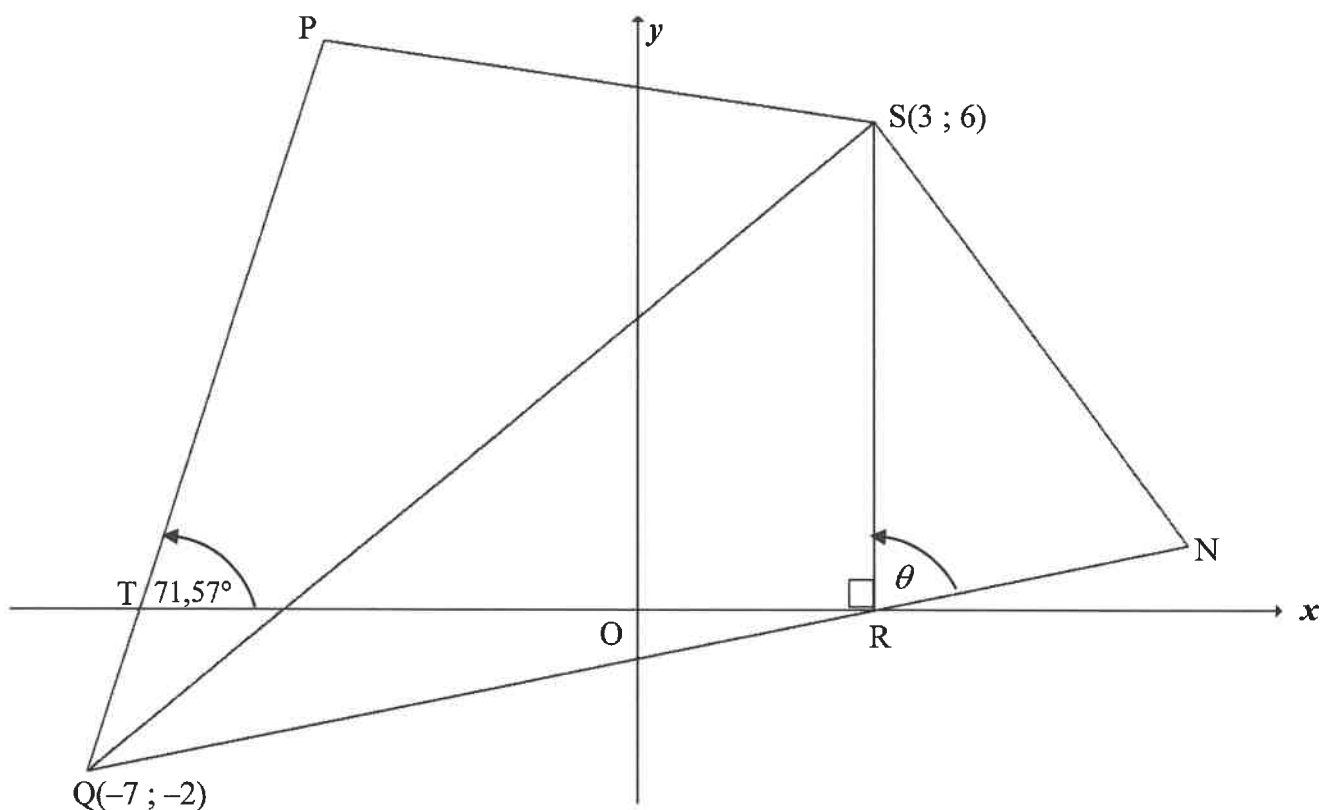
	Solution/Oplissing	Marks Punte
1.1.1		(2)
1.1.2		(2)
1.1.3		(3)
1.2.1		(1)

	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
1.2.2		(2)
1.3		(1)
		[11]

QUESTION/VRAAG 2

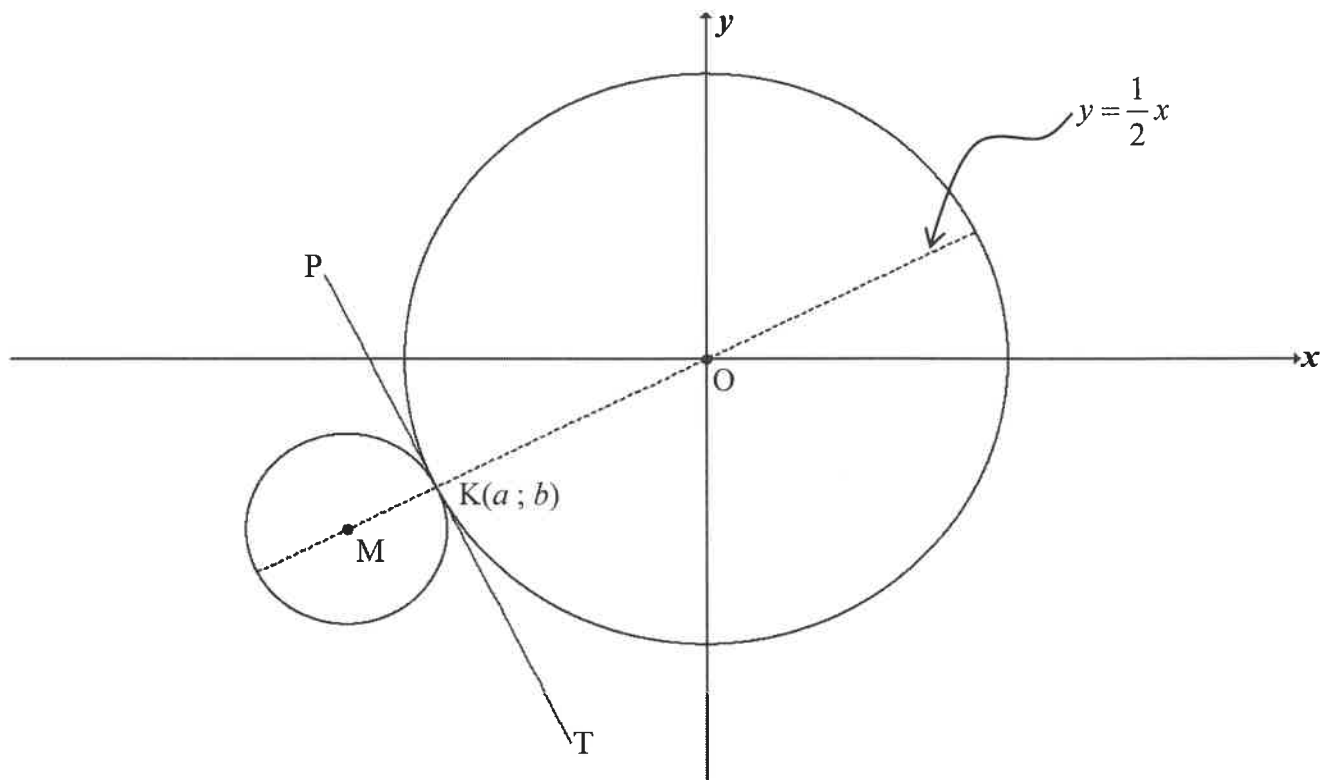
NUMBER OF HOURS GETAL URE	30	50	80	100	120	150	190	220	260
VALUE OF SALES (IN THOUSANDS OF RANDS) WAARDE VAN VERKOPE (IN DUISEND RAND)	270	275	376	100	420	602	684	800	820

	Solution/Oplossing	Marks Punte
2.1		(1)
2.2		(3)
2.3		(2)
2.4		(2)
		[8]

QUESTION/VRAAG 3

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

	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
3.4		(2)
3.5		(3)
3.6		(6)
		[16]

QUESTION/VRAAG 4

	Solution/Oplossing	Marks Punte
4.1		(1)
4.2		(4)

	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
4.3.1		(3)
4.3.2		(6)
4.3.3		(2)

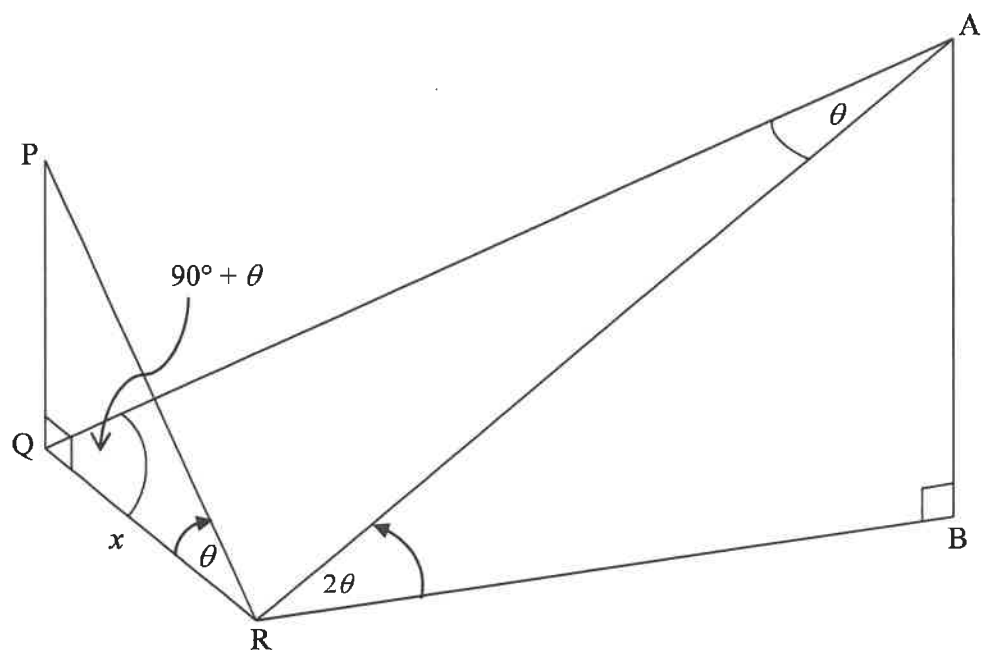
	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
4.4		(3)
4.5		(5)
		[24]

QUESTION/VRAAG 5

	Solution/Oplossing	Marks Punte
5.1.1		(4)
5.1.2		(3)
5.2		(6)

	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
5.3		(2)
5.4.1		(3)
5.4.2		(5)

	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
5.4.3		(4)
5.5.1		(1)
5.5.2		(2)
5.5.3		(3)
		[33]

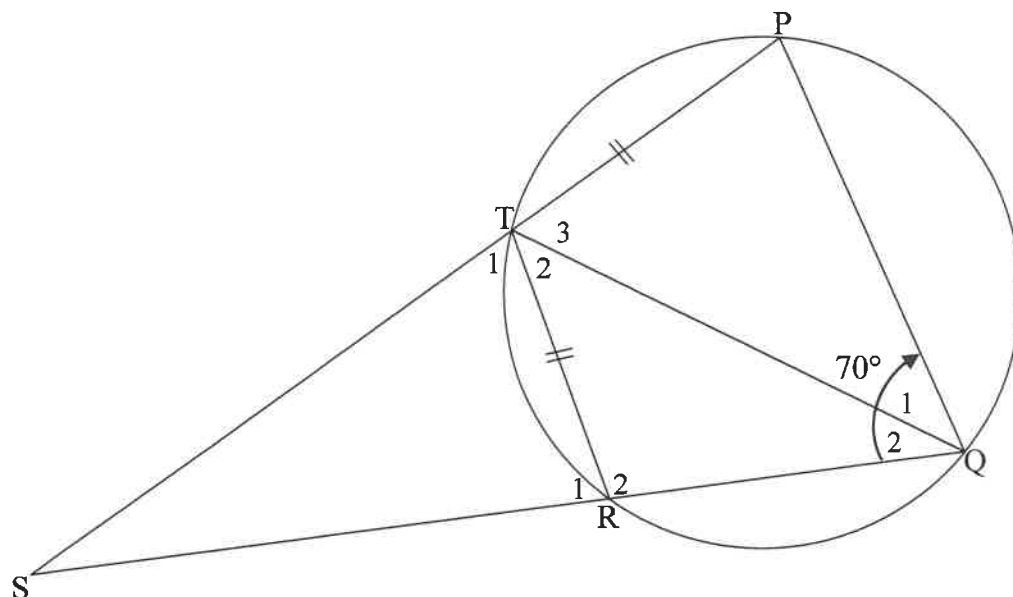
QUESTION/VRAAG 6

	Solution/Oplissing	Marks Punte
6.1.1		(2)
6.1.2		(2)

6.2		(4)
6.3		(2)
		[10]

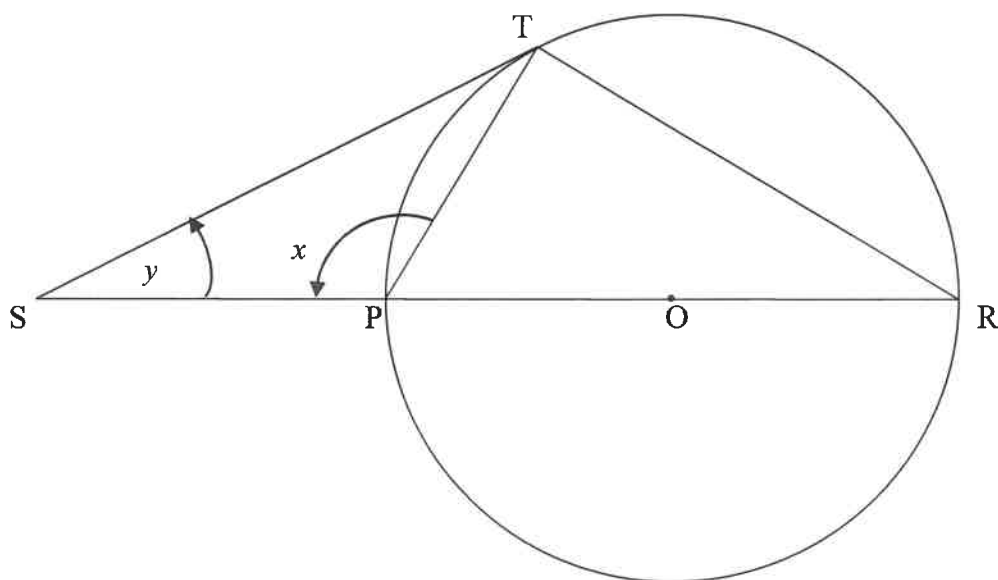
Give reasons for your statements in QUESTIONS 7, 8, 9 and 10.
 Gee redes vir jou bewerings in VRAAG 7, 8, 9 en 10.

QUESTION/VRAAG 7

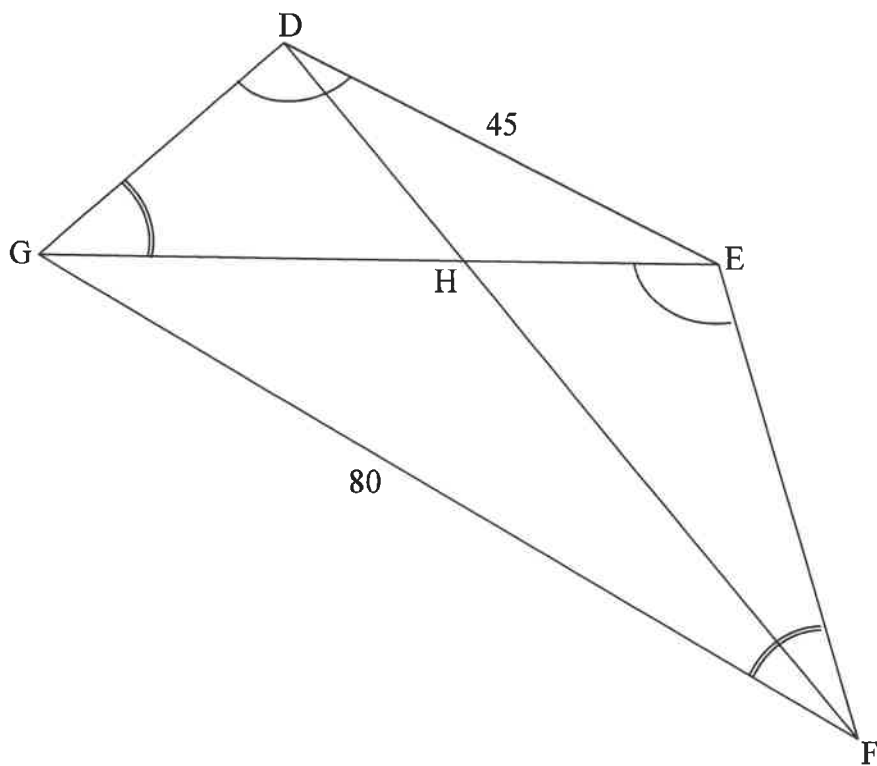


	Solution/Oplissing	Marks Punte
7.1.1		(2)
7.1.2		(2)

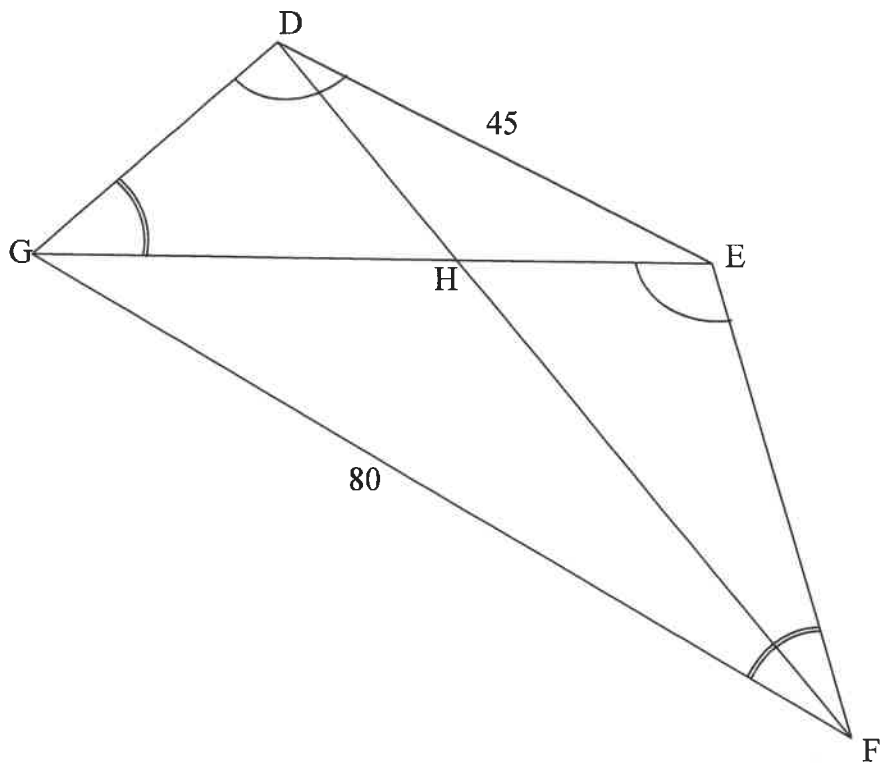
	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
7.2.1		(2)
7.2.2		(2)
		[8]

QUESTION/VRAAG 8

	Solution/Oplossing	Marks Punte
		[6]

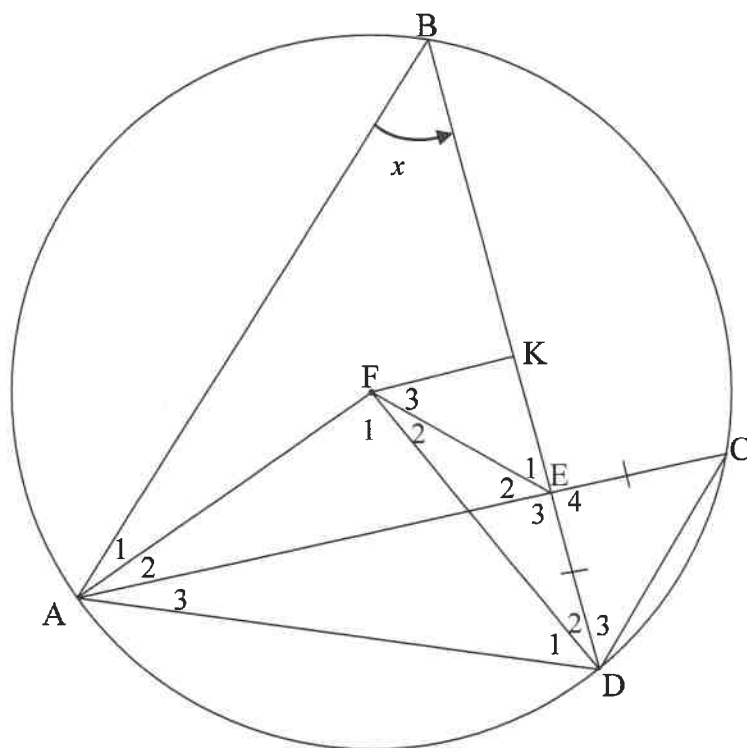
QUESTION/VRAAG 9

	Solution/Oplossing	Marks Punte
9.1		(1)
9.2		(3)



	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
9.3		
		(3)
9.4		
		(3)
		[10]

10.2



	Solution/Oplissing	Marks Punte
10.2.1(a)		(2)
10.2.1(b)		(2)

	Solution/<i>Oplossing</i>	Marks <i>Punte</i>
10.2.2		(4)
10.2.3		(6)
10.2.4		(5)
		[24]

	Additional space/<i>Bykomende ruimte</i>	Marks <i>Punte</i>

[illegible]

Marks	Punte
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[illegible]

TOTAL/TOTAAL: 150