

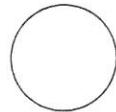


# basic education

Department:  
Basic Education  
**REPUBLIC OF SOUTH AFRICA**

Candidate Barcode Sticker/Kandidaat-stafiekodeplakker

**SENIOR CERTIFICATE EXAMINATIONS/  
SENIORSERTIFIKAAT-EKSAMEN**  
**MATHEMATICS P2/WISKUNDE V2**  
**ANSWER BOOK/ANTWOORDEBOEK**



Sequence No. on mark sheet  
Volgnummer op puntestaaf

CENTRE NUMBER SENTRUMNOMMER							
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EXAMINATION NUMBER EKSAMENNOMMER									
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DATE DATUM						
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BOOK NUMBER BOEKNUMMER		OF VAN		BOOKS BOEKЕ
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SUBJECT CODE VAKKODE				
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MARKER/NASIENER			MODERATOR'S INITIALS IN RELEVANT BLOCK MODERATORPARAAF IN BETROKKIE BLOKKIE					
Question Vraag	Marks Punte	Marker's Code and Initials Nasienerkode en -paraaf	Marks Punte	SM	DCM	CM	IM	EM
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

RE-MARK/RE-CHECK HERNASIEN/HERKONTOLEER		
Question Vraag	Marks Punte	Initials Paraaf
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

TOTAL TOTAAL		
HASH TOTAL KAFTOTAAL		

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

This answer book consists of 31 pages./Hierdie antwoordeboek bestaan uit 31 bladsye.

**FOLLOW THESE  
INSTRUCTIONS CAREFULLY**

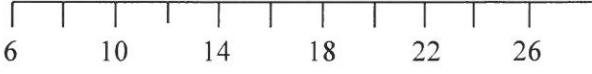
1. Write your centre number and examination number clearly in the spaces provided and paste your barcode sticker in the space provided.
2. Remember that your own name (or the name of your school) may not appear anywhere on or in this ANSWER BOOK.
3. Answer ALL the questions in the spaces provided.
4. Do not remove any pages from this ANSWER BOOK.
5. Read the instructions printed on your timetable carefully as well as any other instructions that may be given in the question paper.
6. You may not retain the ANSWER BOOK or remove it from the examination room. The ANSWER BOOK must be returned to the invigilator at the end of the examination session.
7. You may use blue/black ink to write the answers.
8. Do not write in the margins.
9. Draw a neat line through any work/rough work that must not be marked.
10. If you use the additional space provided:
  - 10.1 Write down the question number.
  - 10.2 Leave a line and rule off after the answer.

**VOLG HIERDIE INSTRUKSIES  
NOUKEURIG**

1. Skryf jou sentrumnommer en eksamennummer duidelik in die ruimtes wat voorsien is en plak jou stafiekodeplakker in die ruimte wat voorsien is.
2. Onthou dat jou eie naam (of die naam van jou skool) nêrens op of in hierdie ANTWOORDEBOEK mag voorkom nie.
3. Beantwoord AL die vrae in die ruimtes wat voorsien is.
4. Moenie enige bladsye uit hierdie ANTWOORDEBOEK verwijder nie.
5. Lees die instruksies wat op jou eksamenrooster gedruk is, sorgvuldig deur, asook enige ander instruksies wat in die vraestel gegee word.
6. Jy mag nie die ANTWOORDEBOEK hou of uit die eksamenlokaal verwijder nie. Die ANTWOORDEBOEK moet aan die toesighouer terugbesorg word aan die einde van die eksamensessie.
7. Jy mag blou/swart ink gebruik om die antwoorde te skryf.
8. Moenie in die kantlyn skryf nie.
9. Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.
10. Indien jy die addisionele ruimte wat voorsien word, gebruik:
  - 10.1 Skryf die vraagnommer neer.
  - 10.2 Laat 'n reël oop en trek 'n lyn na jou antwoord.

**QUESTION/VRAAG 1**

8	8	10	12	16	19	20	21	24	25	26
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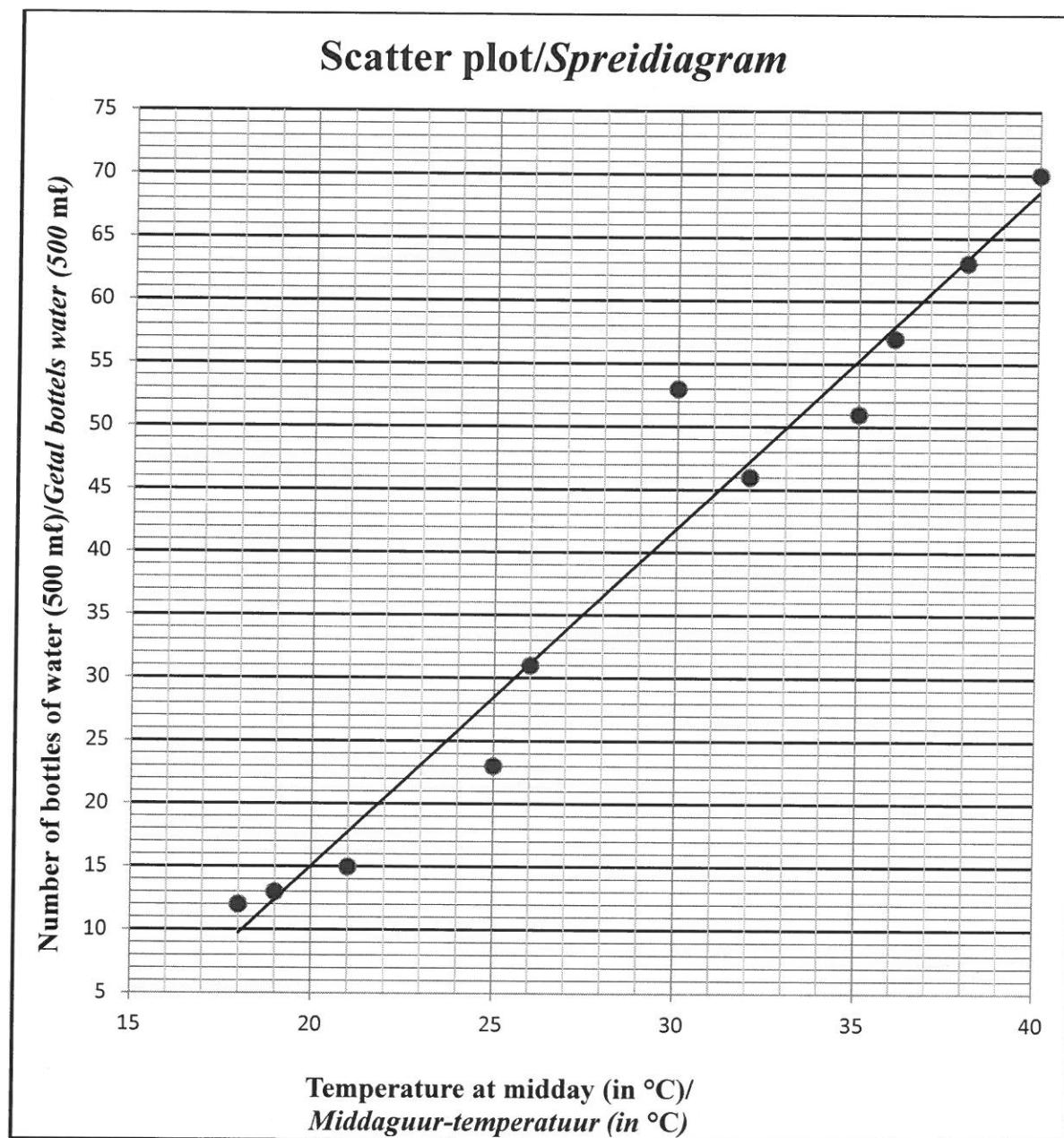
	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
1.1		
1.2		(2)
1.3		(2)

1.4		(1)
1.5		(2)
1.6		(2)

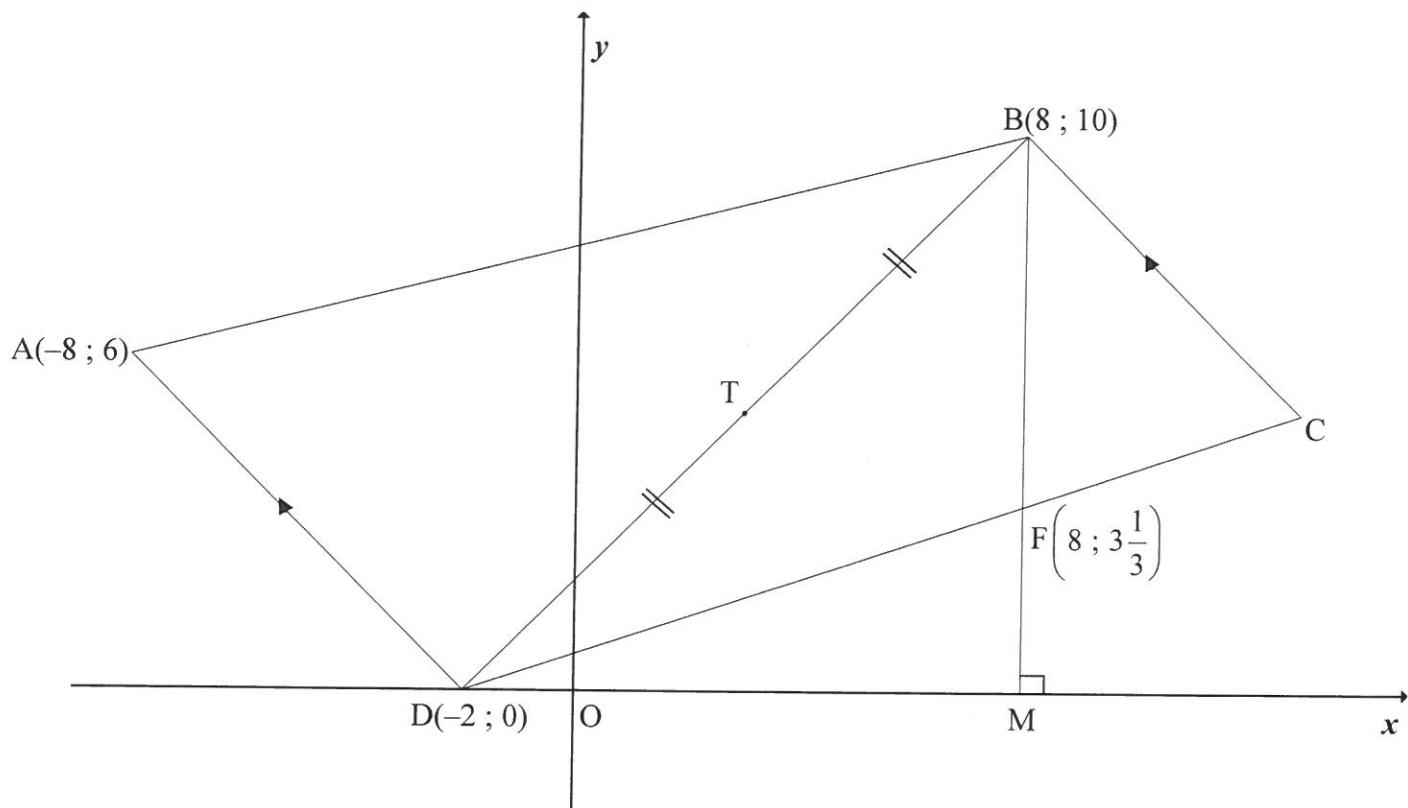
**[12]**

**QUESTION/VRAAG 2**

<b>Temperature at midday (in °C)</b> <i>Middaguur-temperatuur (in °C)</i>	18	21	19	26	32	35	36	40	38	30	25
<b>Number of bottles of water (500 mL)</b> <i>Getal bottels water (500 mL)</i>	12	15	13	31	46	51	57	70	63	53	23



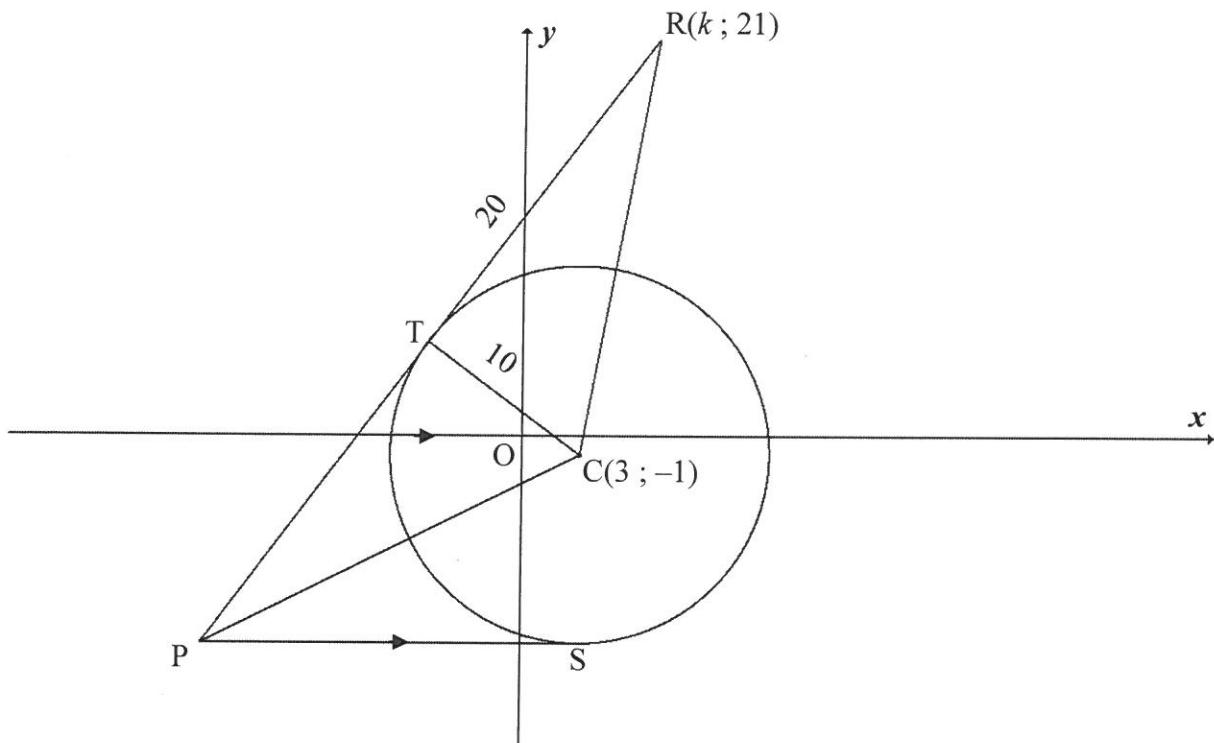
	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
2.1		
2.2		(1)
2.3		(3)
2.4		(2)
2.5		(1) [9]

**QUESTION/VRAAG 3**

	<b>Solution/Oplossing</b>	<b>Marks/Punte</b>
3.1		
3.2		(2)
		(3)

	<i>Solution/Oplossing</i>	Marks <i>Punte</i>
3.3		
3.4		(3)
3.5		(2)
3.6		(3)

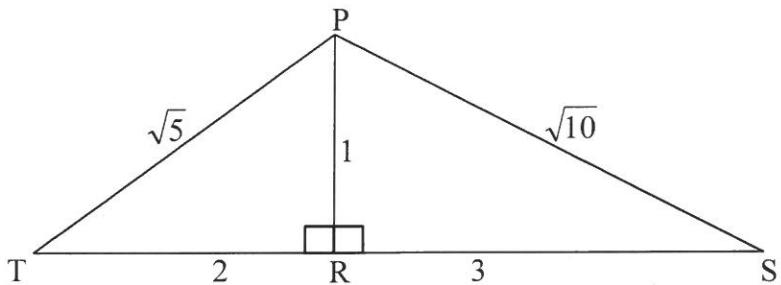
## **QUESTION/VRAAG 4**



	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
4.1		(1)
4.2		(2)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
4.3		(4)
4.4		(2)
4.5		(2)
4.6.1		(2)

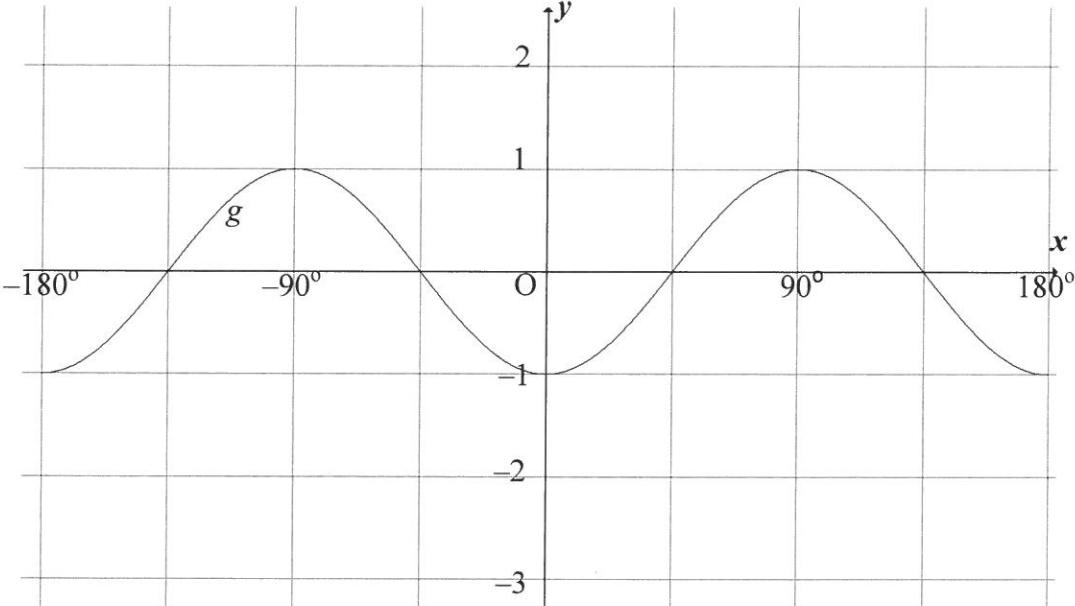
	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
4.6.2		(3)
4.7.1		(1)
4.7.2		(1)
4.7.3		(3) [21]

**QUESTION/VRAAG 5**

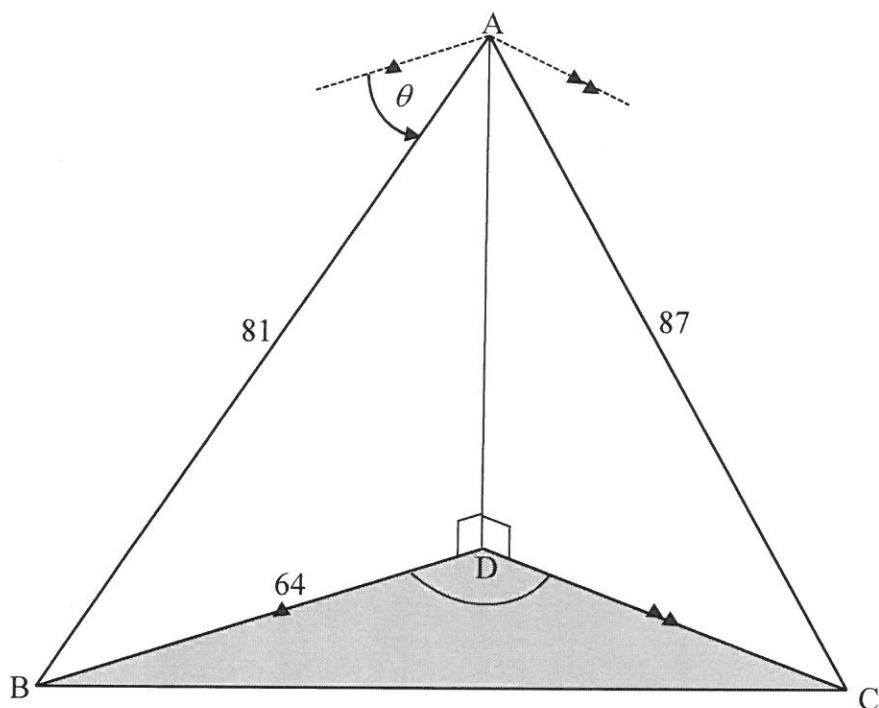
	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
5.1.1(a)		(1)
5.1.1(b)		(1)
5.1.2		(5)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
5.2		(6)
5.3		(5) [18]

**QUESTION/VRAAG 6**

	<b>Solution/<i>Oplossing</i></b>	<b>Marks/ Punte</b>
6.1		
6.2.1		(6)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks Punte</b>
6.2.2		(2)
6.2.3		(2) [13]

**QUESTION/VRAAG 7**

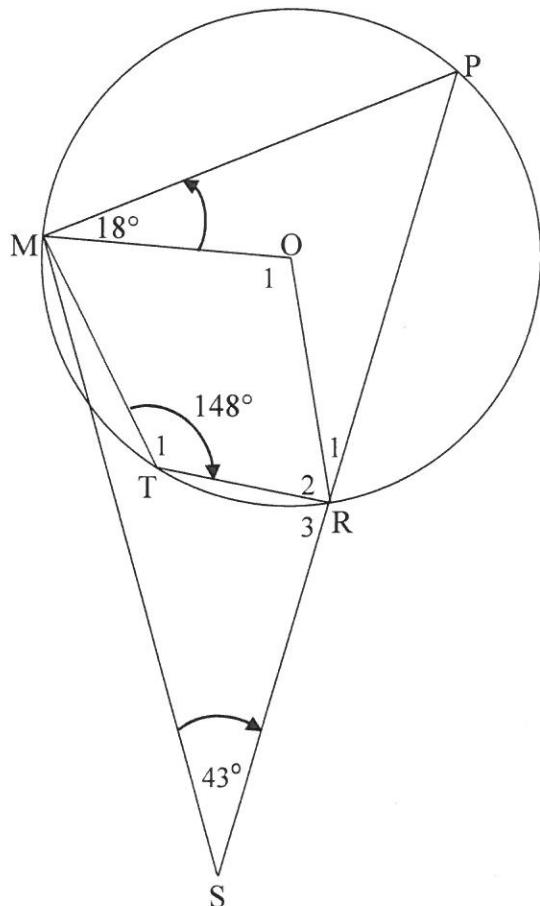
	<b>Solution/Oplossing</b>	<b>Marks/Punte</b>
7.1		
7.2		(3)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
7.3		(3) [9]

**Give reasons for ALL statements in QUESTIONS 8, 9, 10 and 11.**  
**Gee redes vir AL die bewerings in VRAAG 8, 9, 10 en 11.**

**QUESTION/VRAAG 8**

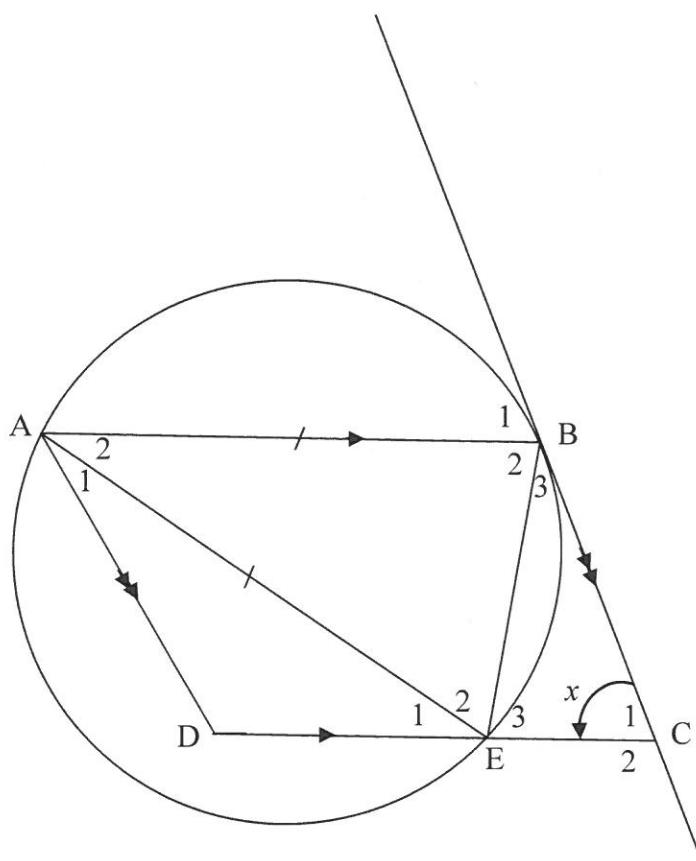
8.1



	<b>Solution/Oplossing</b>	<b>Marks/Punte</b>
8.1.1		(2)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks Punte</b>
8.1.2		(2)
8.1.3		(2)
8.1.4		(2)

8.2



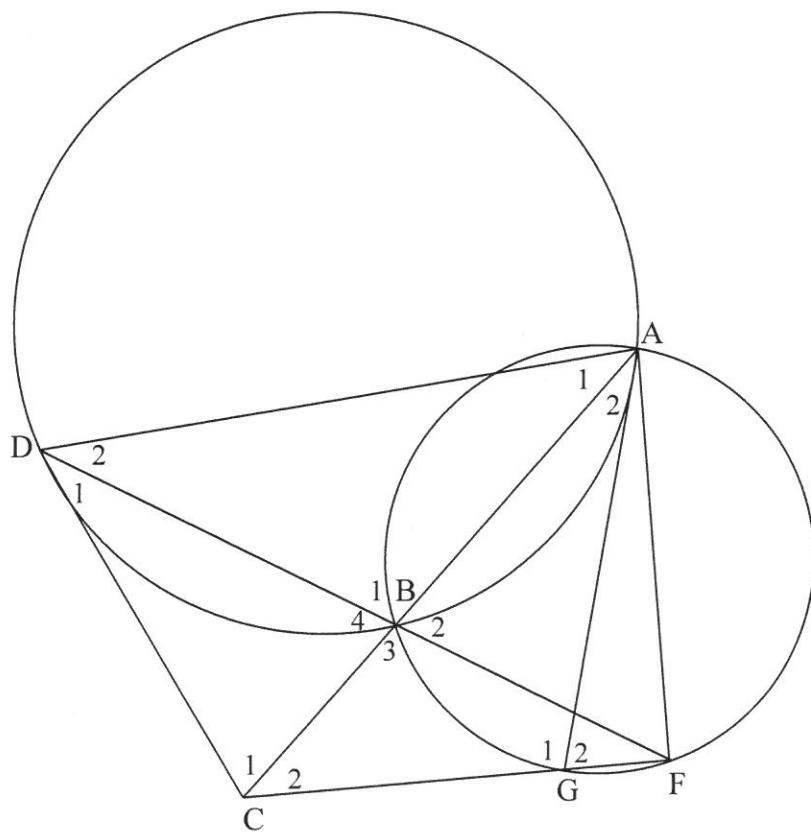
	<b>Solution/Oplossing</b>	<b>Marks/Punte</b>
8.2.1		(1)
8.2.2		(6)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks/ Punte</b>
8.2.3		(3) <b>[18]</b>

**QUESTION/VRAAG 9**

	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
9.1		(1)

9.2

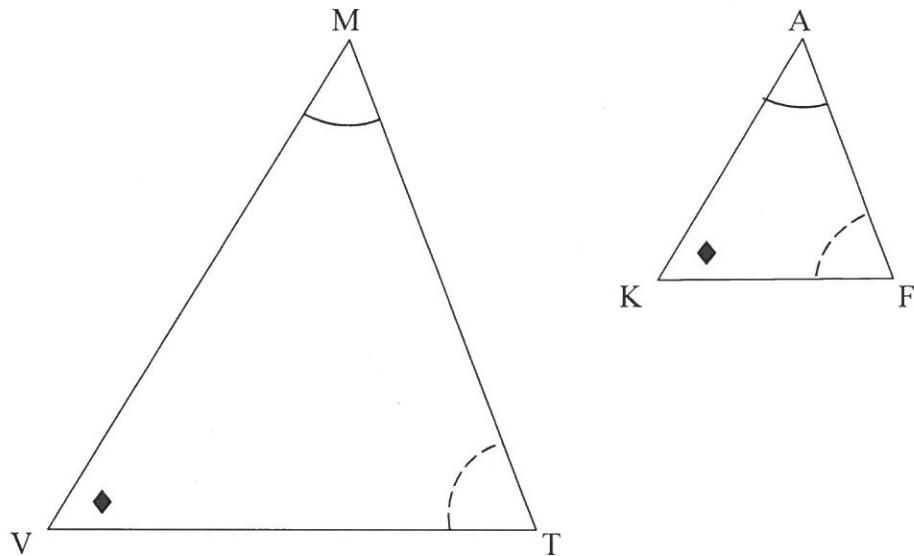


	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
9.2.1		(4)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks/ Punte</b>
9.2.2		(4)
9.2.3		(4) [13]

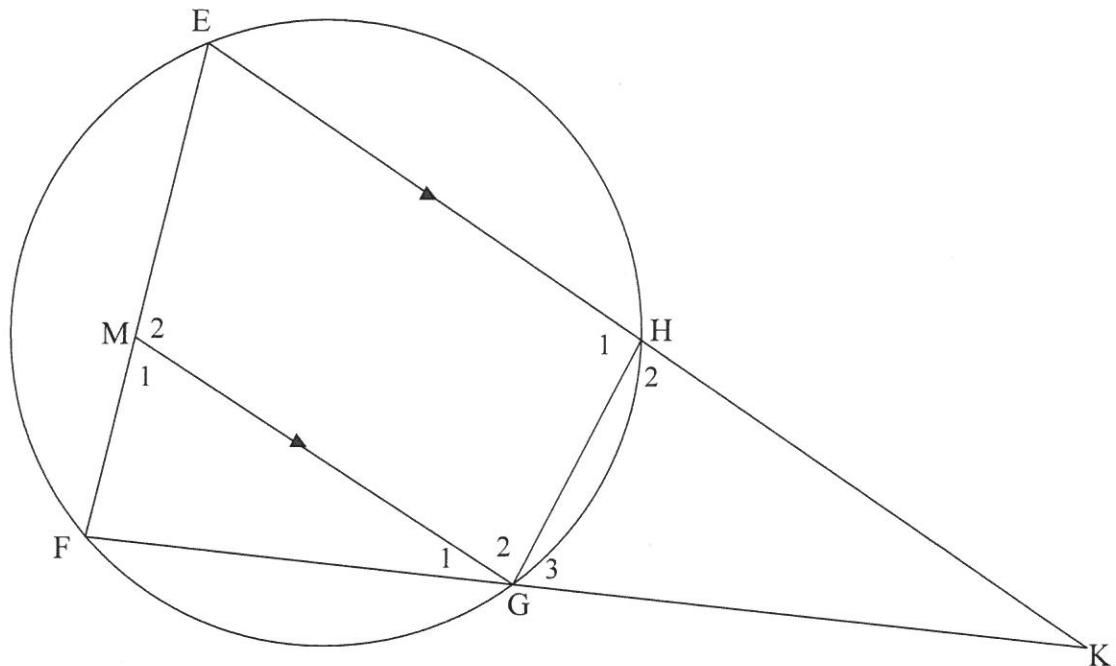
**QUESTION/VRAAG 10**

10.1



	<b>Solution/Oplossing</b>	<b>Marks/Punte</b>
		(7)

10.2



	<b>Solution/Oplossing</b>	<b>Marks/Punte</b>
10.2.1(a)		(4)
10.2.1(b)		(2)

	<b>Solution/<i>Oplossing</i></b>	<b>Marks <i>Punte</i></b>
10.2.1(c)		(3)
10.2.2		(3) [19]

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

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

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

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

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

**TOTAL/TOTAAL:** 150