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Candidate Barcode label/Stafieskodeplakker

**Senior Certificate Answer Book**  
*Seniorsertifikaat-antwoordeboek*

**SENIOR CERTIFICATE/SENIOR SERTIFIKAAT (GRADE 12/GRAAD 12)**

CENTRE NUMBER SENTRUMNOMMER											
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EXAMINATION NUMBER EKSAMENNOMMER													
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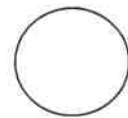
DATE DATUM									
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BOOK NUMBER BOEKNOMMER		OF VAN		BOOKS BOEKE
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SUBJECT CODE VAKKODE					
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PAPER NUMBER VRAESTELNOMMER	2
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SUBJECT NAME VAKNAAM	<b>MATHEMATICS P2/WISKUNDE V2</b>
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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
		<b>TOTAL TOTAAL</b>										

CONTROLLED AND CERTIFIED CORRECT (SURNAME AND INITIALS OF EA) <i>GEKONTROLEER EN AS KORREK</i> <i>GESERTIFISEER (VAN EN VOORLETTERS VAN EA)</i>	
--	--

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

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

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 sentrumnummer 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 examination paper.	5. Lees die instruksies wat op jou eksamenrooster gedruk is, sorgvuldig deur, asook enige ander instruksies wat in elke eksamenvraestel 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. Indien jy bykomende ruimte nodig het vir jou antwoorde:
9.1 Use the additional space provided at the end of the answer book.	9.1 Gebruik die bykomende ruimte wat aan die einde van die antwoordeboek verskaf word.
9.2 When answering a question in the additional space, indicate clearly the question number in the column on the LHS.	9.2 As 'n vraag in die bykomende ruimte beantwoord word, dui duidelik die vraagnommer in die kolom aan die LK aan.
9.3 Rule off after each answer.	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.

**QUESTION/VRAAG 1**

110	112	156	164	167	169
171	176	192	228	278	360

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
1.1.1	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(3)
1.1.2	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(1)
1.2		(2)

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
1.3		(1)
1.4		(1)
1.5.1		(1)
1.5.2		(2)
		<b>[11]</b>

## QUESTION/VRAAG 2

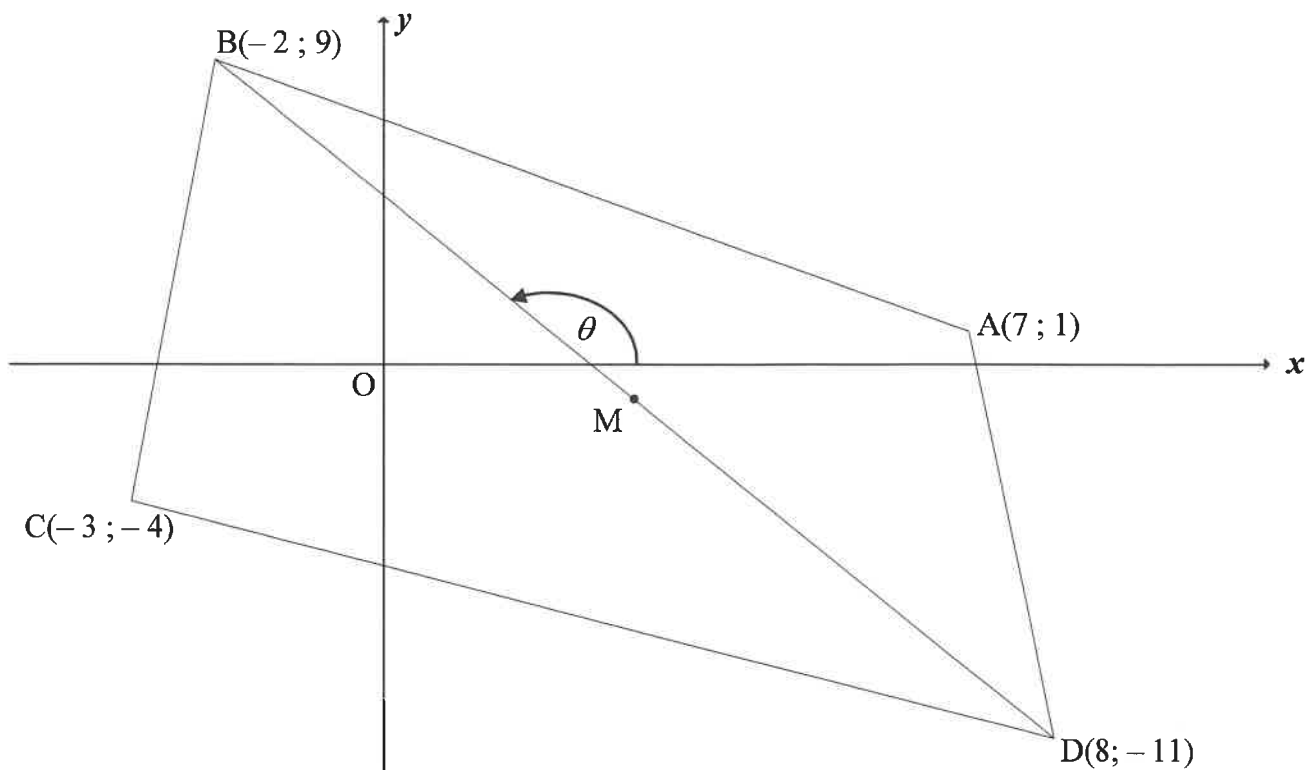
<b>CHIRPS/TJIRPGELUIDE PER MINUTE/ PER MINUUT</b>	<b>AIR TEMPERATURE/ LUGTEMPERATUUR IN °C</b>
32	8
40	10
52	12
76	15
92	17
112	20
128	25
180	28
184	30
200	35

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
2.1	<p style="text-align: center;"><b>SCATTER PLOT/SPREIDIAGRAM</b></p>	

(3)

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
2.2		(1)
2.3		(3)
2.4		(2)
		<b>[9]</b>

**QUESTION/VRAAG 3**



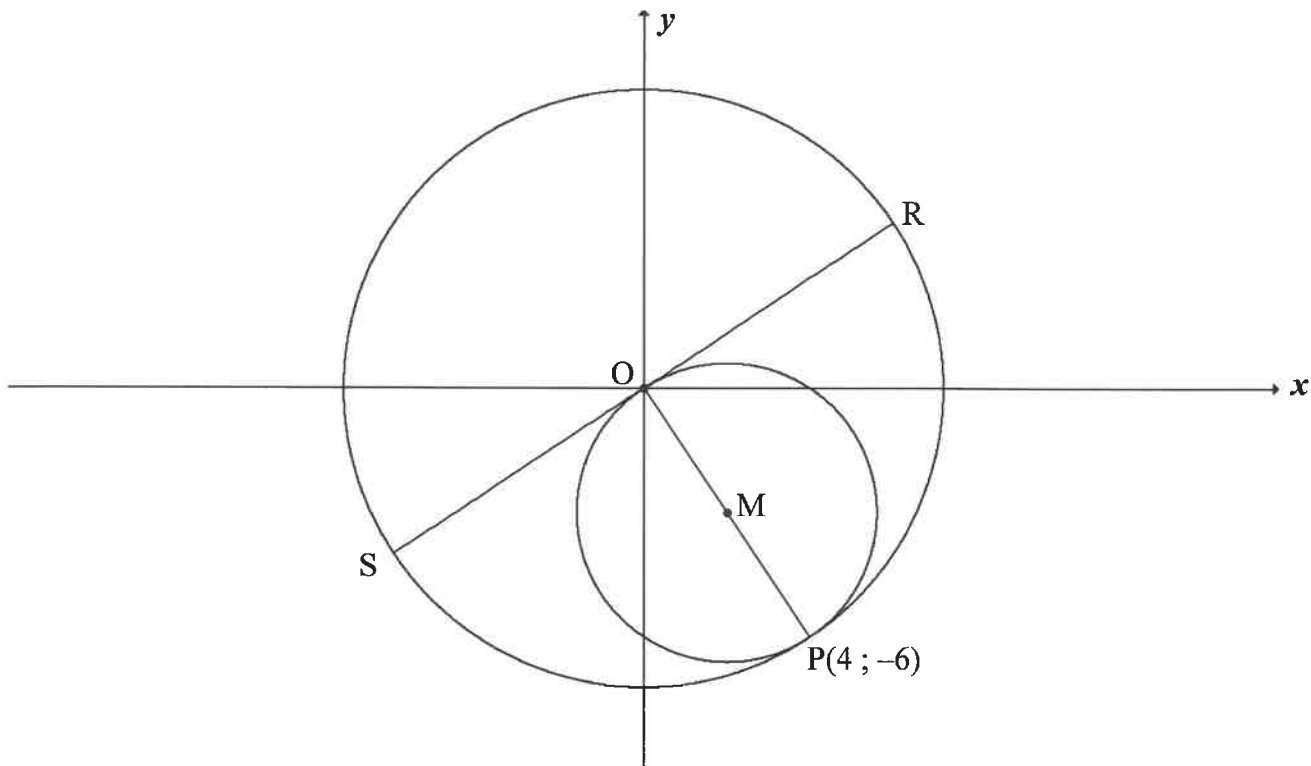
	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
3.1		(2)
3.2.1		(2)



	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
3.2.2		(4)
3.3		(3)
3.4.1		(2)
3.4.2		(3)

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
3.4.3		
		(2)
3.4.4		
		(5)
		<b>[23]</b>

**QUESTION/VRAAG 4**



	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
4.1		
		(2)
4.2.1		
		(2)

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
4.2.2		
		(3)
4.2.3		
		(3)
4.3		
		(4)

	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
<b>4.4</b>		

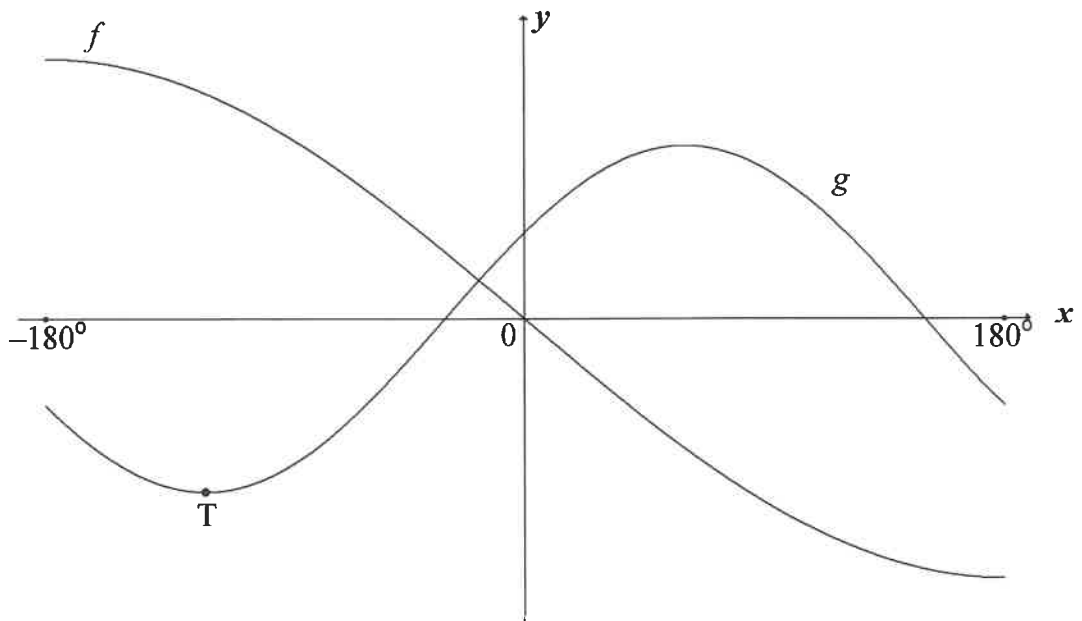
**(3)  
[17]**

**QUESTION/VRAAG 5**

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
5.1.1		
		(3)
5.1.2		
		(2)
5.2		
		(4)

	<i><b>Solution/Oplissing</b></i>	<i><b>Marks Punte</b></i>
5.3.1		(2)
5.3.2		(7) <b>[18]</b>

**QUESTION/VRAAG 6**

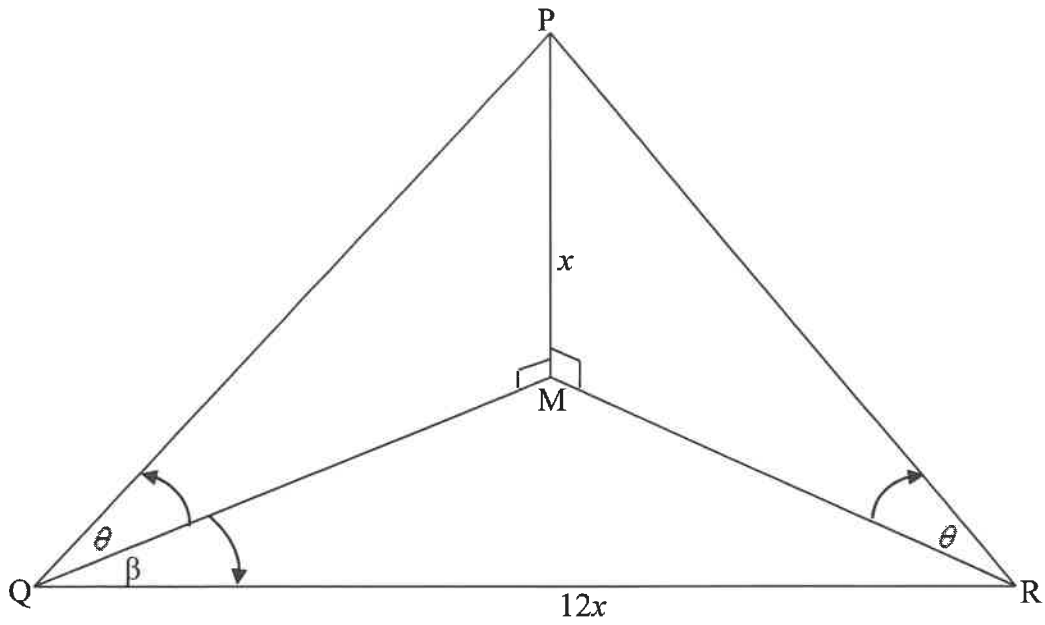


	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
6.1		(1)
6.2		(2)
6.3		(3)



	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
6.4.1	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(3)
6.4.2	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	(4)
		<b>[13]</b>

**QUESTION/VRAAG 7**



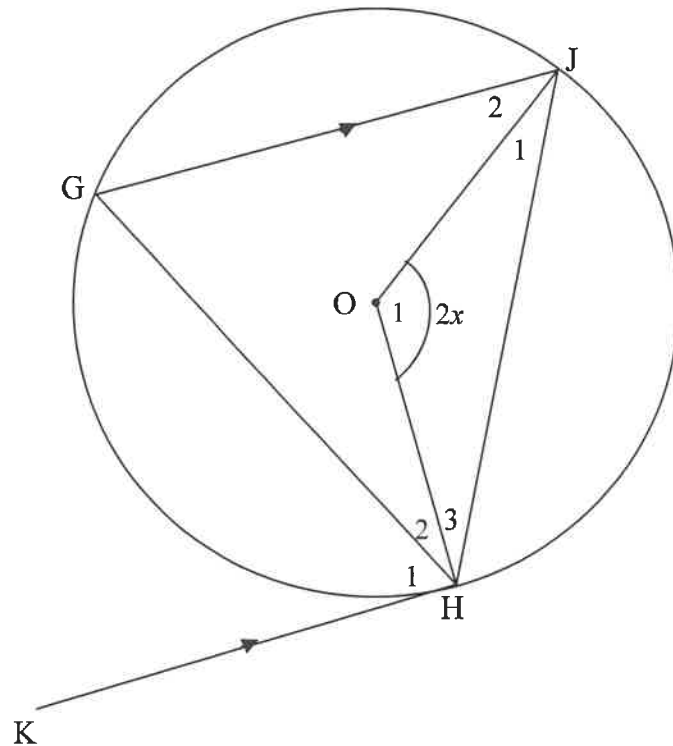
	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
7.1		(2)
7.2		

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
7.2 cont.		(4)
7.3		(3)
		<b>[9]</b>

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

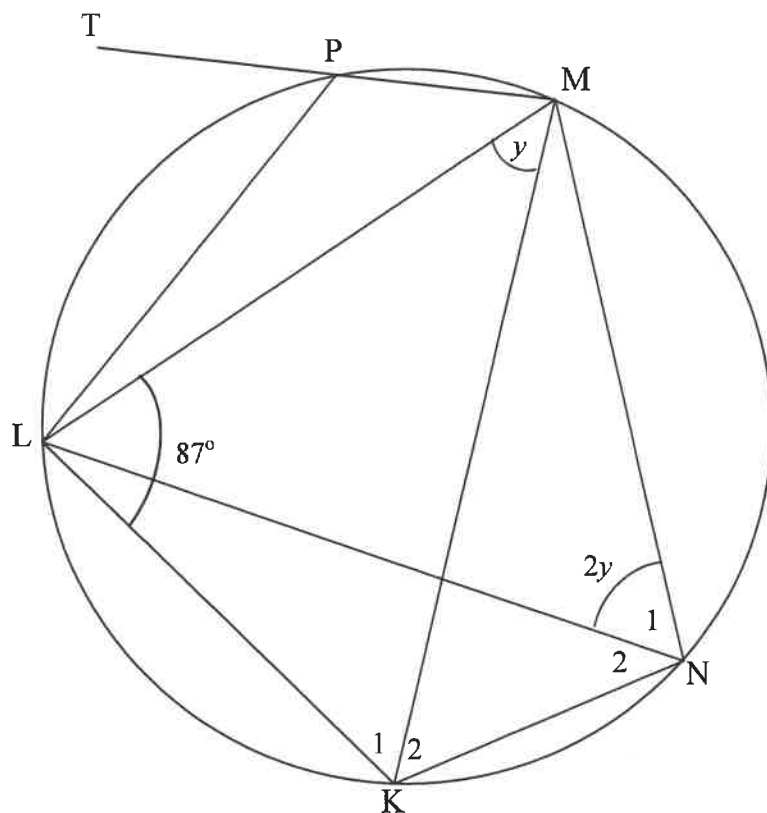
**QUESTION/VRAAG 8**

8.1



	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
8.1.1		(5)
8.1.2		(3)

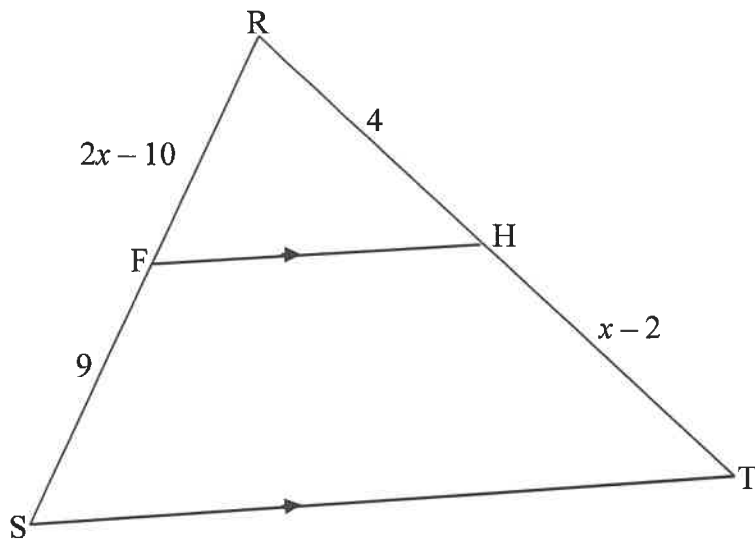
8.2



	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
8.2.1		(2)
8.2.2(a)		(3)
8.2.2(b)		(2)
		<b>[15]</b>

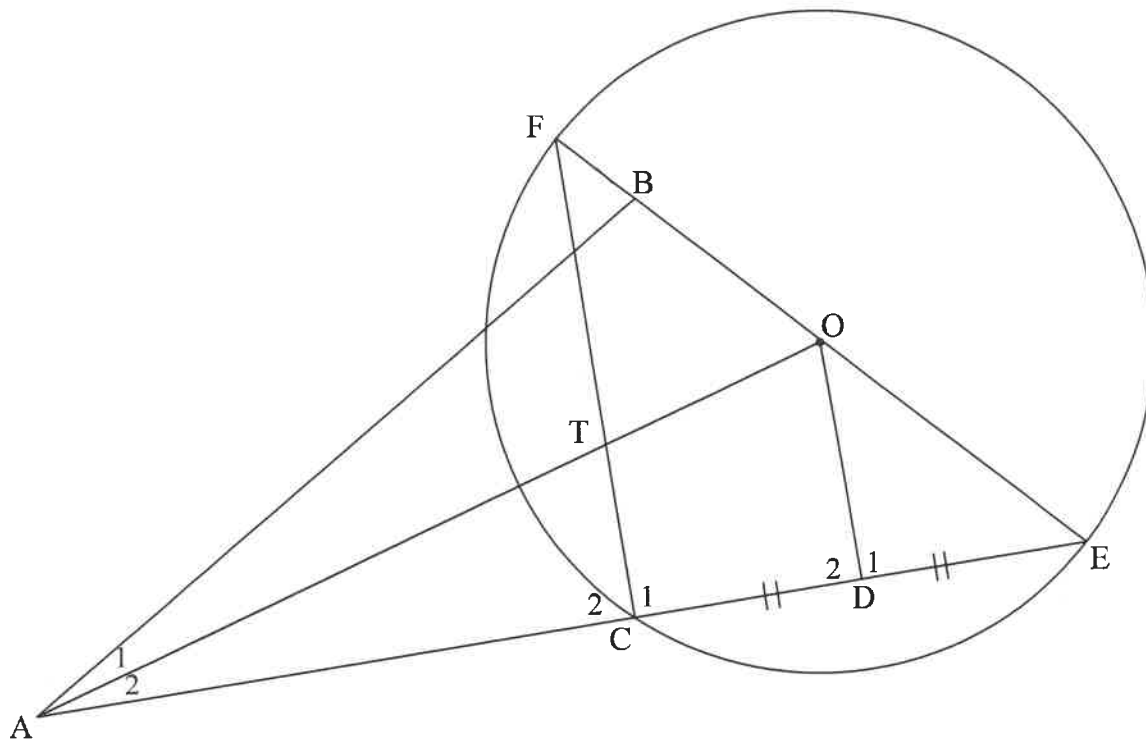


9.2



	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
9.2.1		
		(5)
9.2.2		
		(4)
		<b>[14]</b>

**QUESTION/VRAAG 10**



	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
10.1.1		
		(5)
10.1.2		
		(4)



	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
10.1.3		
10.2		
		<b>(5) [21]</b>

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

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

