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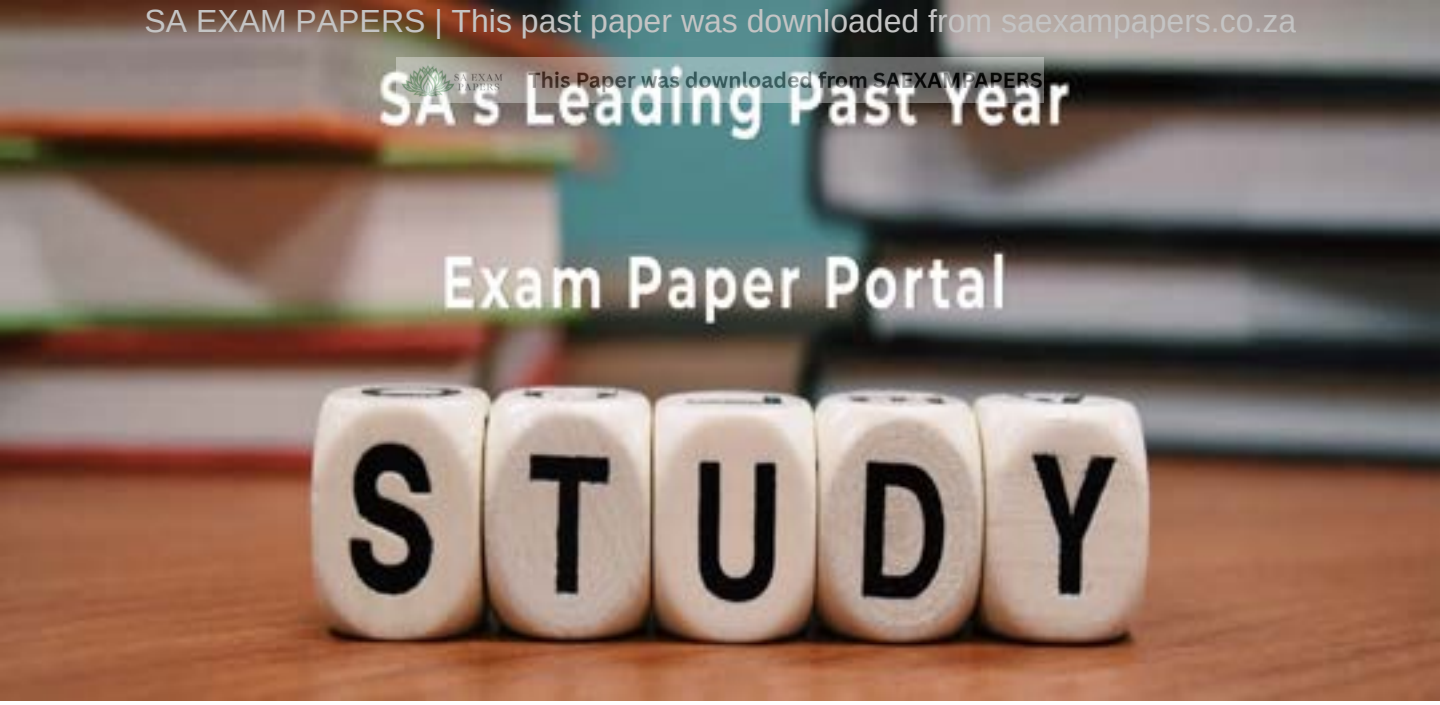

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basic education
Department
Basic Education
REPUBLIC OF SOUTH AFRICA

Candidate Barcode Label/Stafieskodeplakker

NSC Answer Book
NSS-antwoordeboek

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

Sequence No. on mark sheet
Volgnommer op puntestaat

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*	TECHNICAL MATHEMATICS/*TEGNIESE WISKUNDE*

November 2025 Confidential/ *Vertroulik*

MARKER/*NASIENER*				MODERATOR'S INITIALS IN RELEVANT BLOCK/ *MODERATORPARAAF IN BETROKKE BLOKKIE*																	
Question *Vraag*	Marks *Punte*			Marker's Code & Initials	Marks *Punte*			SM	Marks *Punte*			DCM	Marks *Punte*			CM	Marks *Punte*			IM	Marks *Punte*			EM
1																								
2																								
3																								
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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 THE NEXT PAGE. *LEES INSTRUKSIES OP DIE VOLGENDE BLADSY.*

This answer book consists of 30 pages. / *Hierdie antwoordeboek bestaan uit 30 bladsye.*

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PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY	*VOLG ASSEBLIEF HIERDIE INSTRUKSIES NOUKEURIG*
1. Your examination number and centre number must be clearly written in the space provided and attach your examination number sticker in the space provided.	*1. Skryf jou eksamennommer en sentrumnommer duidelik in die ruimtes verskaf en plak jou eksamennommeretiket 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. Answer books must be returned to the Invigilator at the end of the examination session.	*6. Geen antwoordeboek mag deur die kandidaat behou of uit die eksamenlokaal verwyder word nie. Antwoordeboeke moet aan die einde van die eksamensessie aan die toesighouer terugbesorg word.*
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. MOENIE in die kantlyn skryf NIE.*
8. Indicate the questions you have answered by drawing a circle around the relevant numbers on the front cover of the answer book where marks are to be recorded.	*8. Dui die vrae wat jy beantwoord het op die voorblad van die antwoordeboek aan, waar die punte aangebring word, deur 'n kringetjie om die nommers van die vrae wat jy beantwoord het, te trek.*
9. Draw a neat line through any work/rough work that must not be marked.	*9. Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.*
10. In the event that you use the additional space provided at the end of this ANSWER BOOK: 10.1 Write down the question number. 10.2 Leave a line and rule off after your answer.	*10. In geval jy die bykomende ruimte wat aan die einde van hierdie ANTWOORDEBOEK verskaf is, gebruik:* *10.1 Skryf die vraagnommer neer.* *10.2 Laat 'n lyn oop en trek 'n lyn na jou antwoord.*

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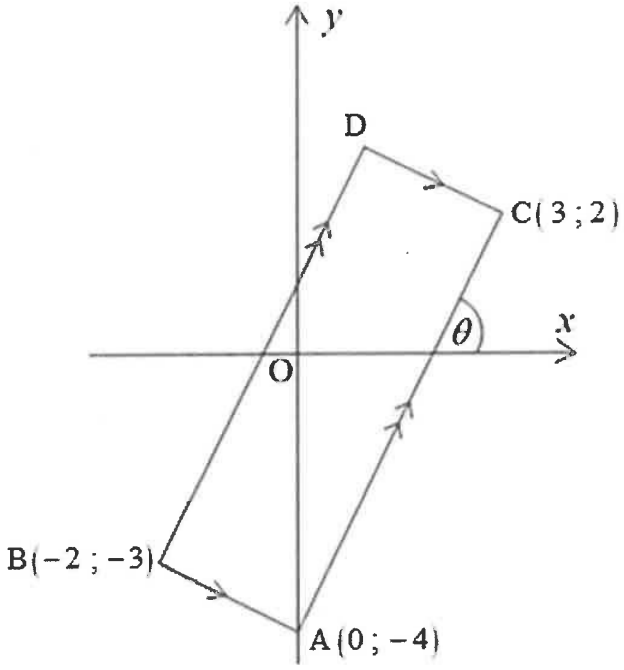
QUESTION/*VRAAG* 1



	Solution/*Oplossing*	**Marks** ***Punte***
1.1		(1)
1.2		(2)

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	Solution/*Oplossing*	**Marks** ***Punte***
1.3		(2)
1.4		(2)
1.5		(1)
1.6		(3)

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	Solution/*Oplossing*	**Marks** ***Punte***
1.7		(3)
		[14]

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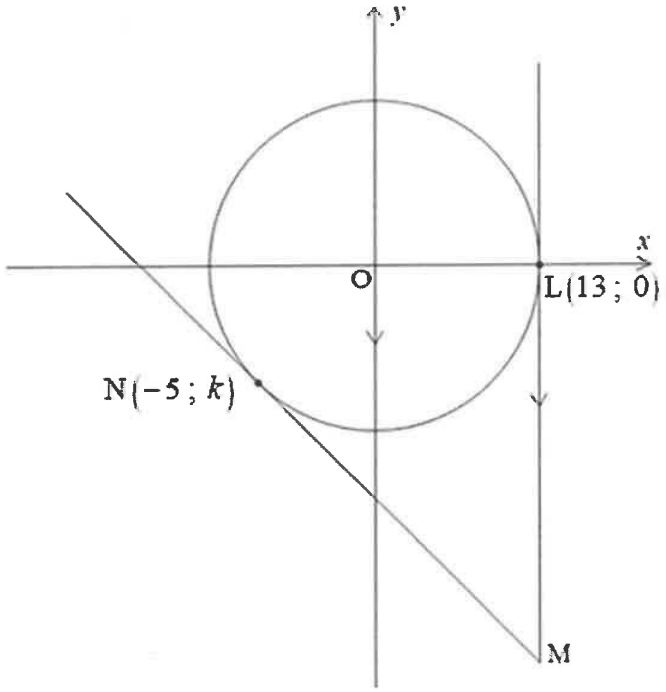
QUESTION/*VRAAG* 2

2.1



	Solution/*Oplossing*	**Marks** ***Punte***
2.1.1		(2)

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	Solution/*Oplossing*	**Marks** ***Punte***
2.1.2		(2)
2.1.3		(5)

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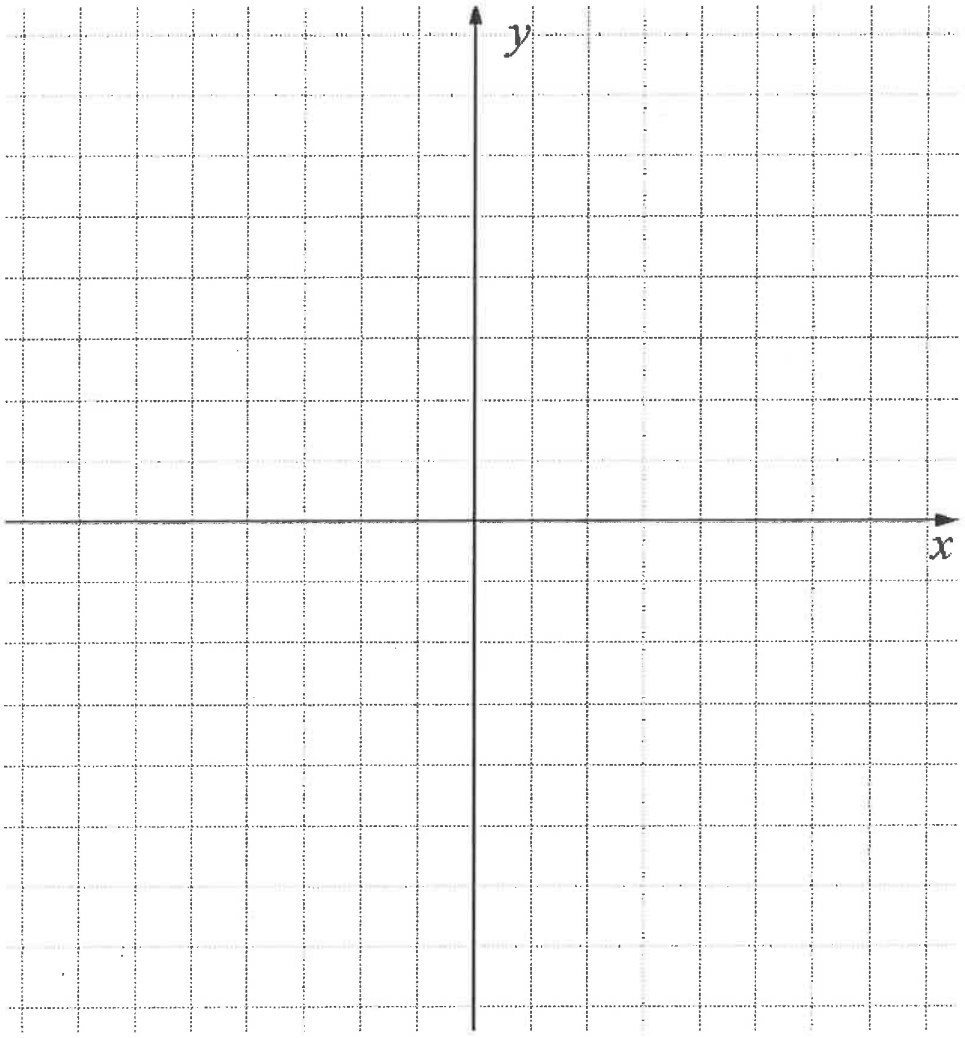
	Solution/*Oplossing*	**Marks** ***Punte***
2.2		(3)
		[12]

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QUESTION/*VRAAG* 3

	Solution/*Oplossing*	**Marks** ***Punte***
3.1		(3)
3.2.1		(3)
3.2.2		(3)
3.3		(4)
		[13]

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QUESTION/*VRAAG* 4

	Solution/*Oplossing*	**Marks** ***Punte***
4.1.1		(1)
4.1.2		(1)
4.1.3		(2)
4.1.4		(5)

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	Solution/*Oplossing*	**Marks** ***Punte***
4.2.1		(1)
4.2.2		(3)
		[13]

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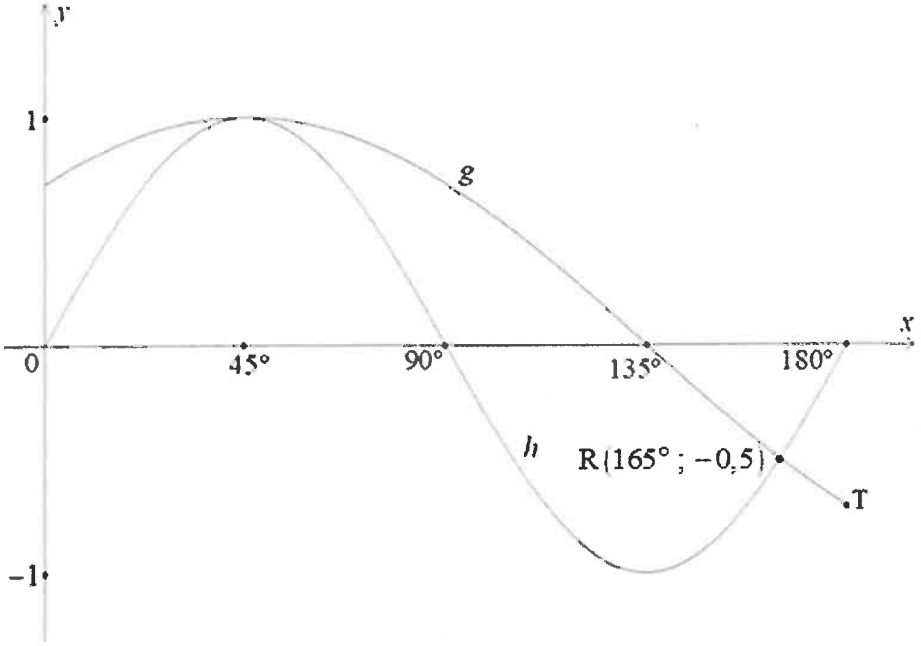
QUESTION/*VRAAG 5*



	Solution/*Oplossing*	**Marks** ***Punte***
5.1		(2)
5.2		(1)
5.3		(1)
5.4.1		(2)
5.4.2		(4)
5.5		(1)
		[11]

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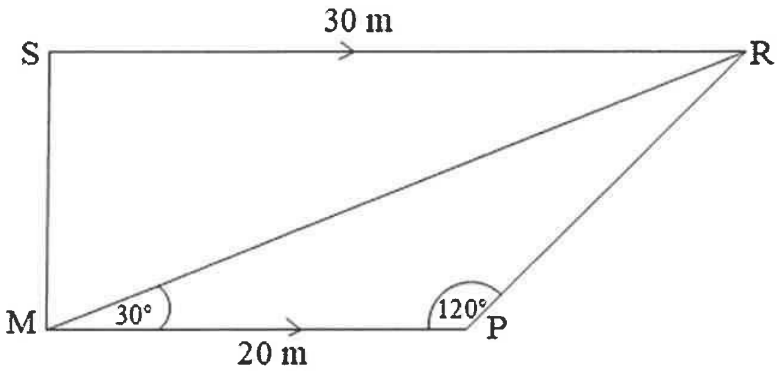
QUESTION/*VRAAG* 6



	Solution/*Oplossing*	**Marks** ***Punte***
6.1		(1)
6.2		(1)
6.3		(3)

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	Solution/*Oplossing*	**Marks** ***Punte***
6.4		
		(2)
6.5		
		(5)
		[12]

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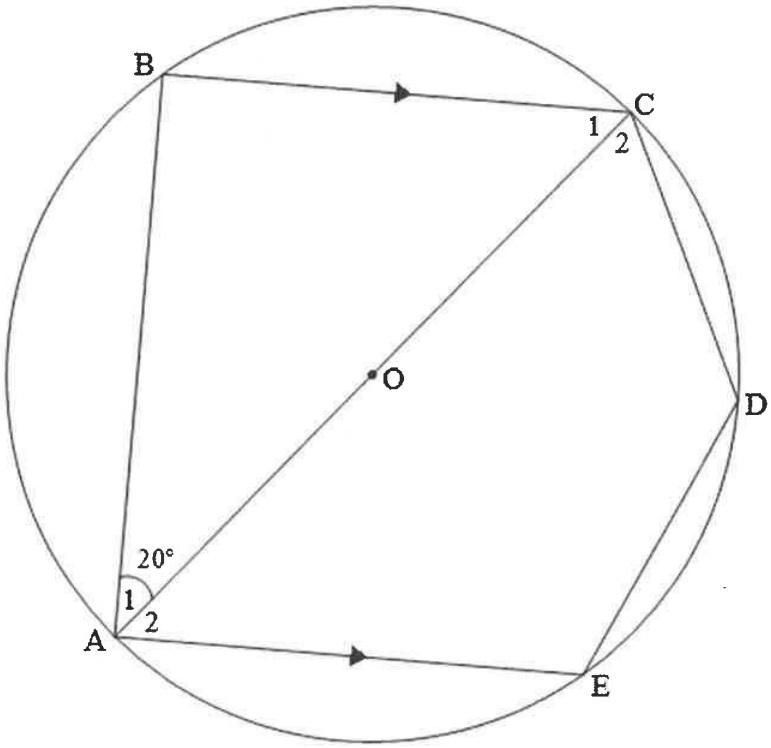
Give reasons for your statements in QUESTIONS 7, 8 and 9.
Gee redes vir jou bewerings in VRAAG 7, 8 en 9.

QUESTION/*VRAAG* 7



	Solution/*Oplossing*	**Marks** ***Punte***
7.1.1		(1)
7.1.2		(3)

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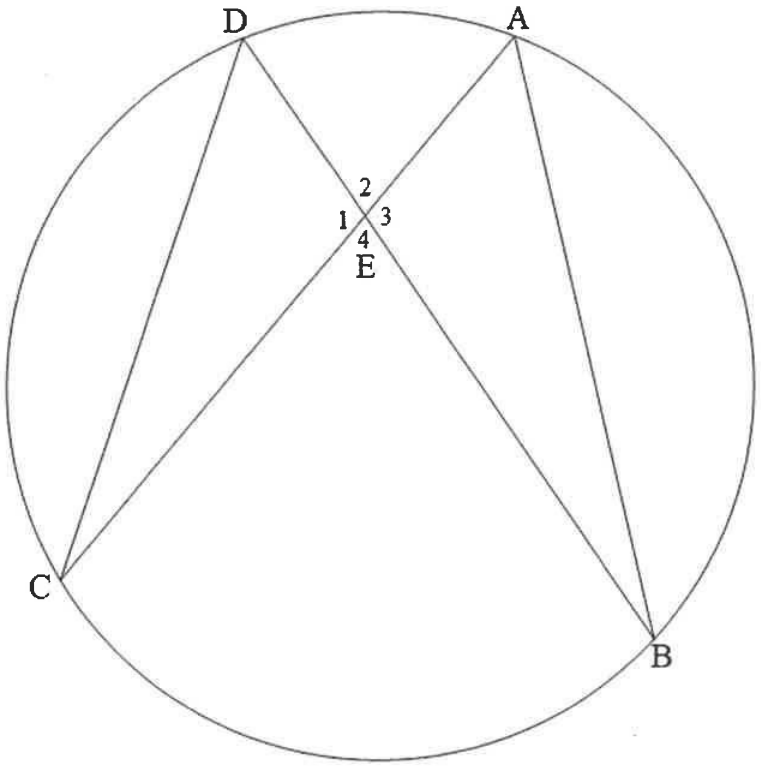
7.2



	Solution/*Oplossing*	Marks *Punte*
7.2.1		(1)
7.2.2		(3)

STATEMENT/*STELLING*	REASON/*REDE*	
(a) $C\hat{D}B = C\hat{A}B$		(1)
(b) $\hat{E}_1 = \hat{E}_3$		(1)
(c) $\Delta DEC \mid\mid\mid \Delta AEB$		(1)

[8]

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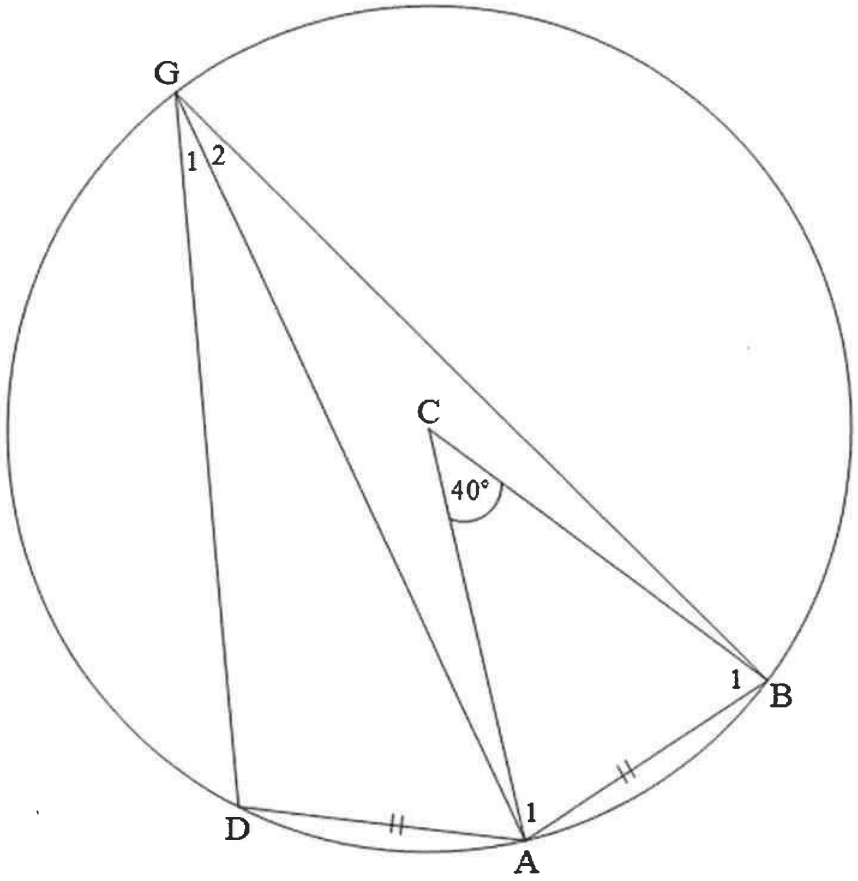
QUESTION/*VRAAG* 8

8.1



	Solution/*Oplossing*	**Marks** ***Punte***
8.1.1		(1)
8.1.2		(2)
8.1.3		(1)
8.1.4		(2)

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	Solution/*Oplossing*	**Marks** ***Punte***
8.1.5		(3)
8.2.1		(1)
8.2.2		(1)

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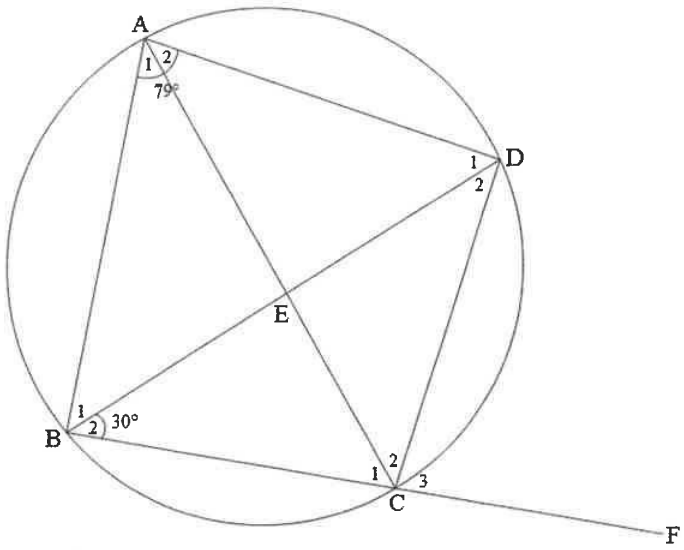
8.3



	Solution/*Oplossing*	**Marks** ***Punte***
8.3.1 (a)		(2)
8.3.1 (b)		(2)
8.3.1 (c)		(3)
8.3.2		(4)
		[22]

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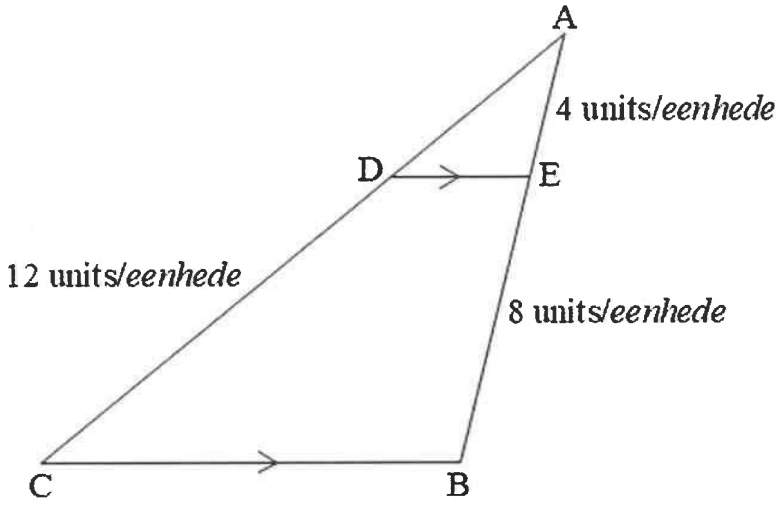
QUESTION/*VRAAG* 9

9.1



	Solution/*Oplossing*	**Marks** ***Punte***
9.1.1	**STATEMENT/*STELLING*** | **REASON/*REDE*** $\frac{AD}{CD} = \frac{AE}{...}$ | Prop. theorem; ... || ... *Eweredigheid* ; ... || ...	(2)
9.1.2		(2)

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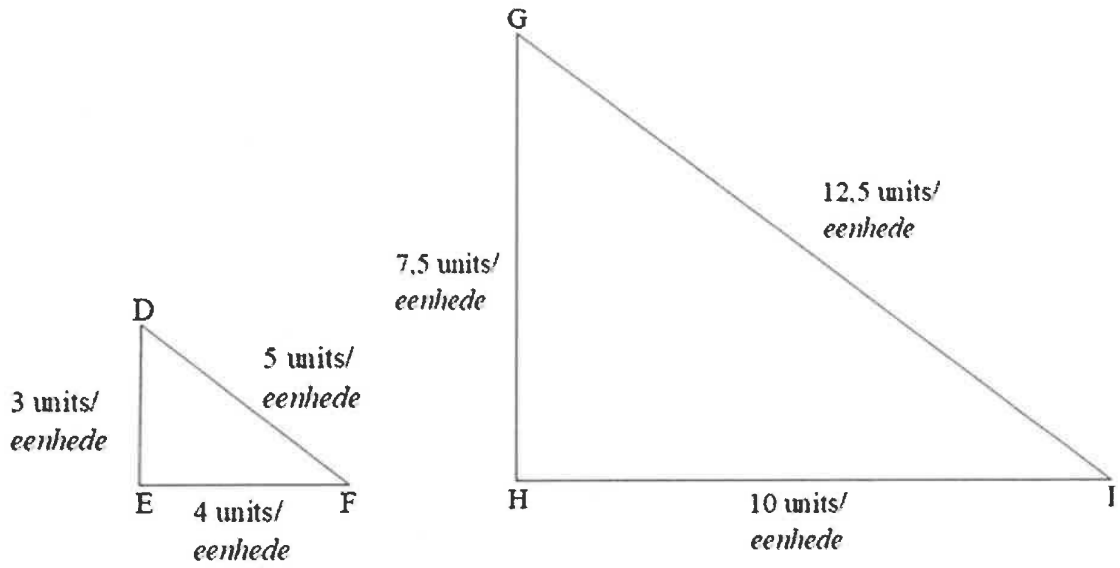
9.2



	Solution/*Oplossing*	Marks *Punte*
		(4)
		[8]

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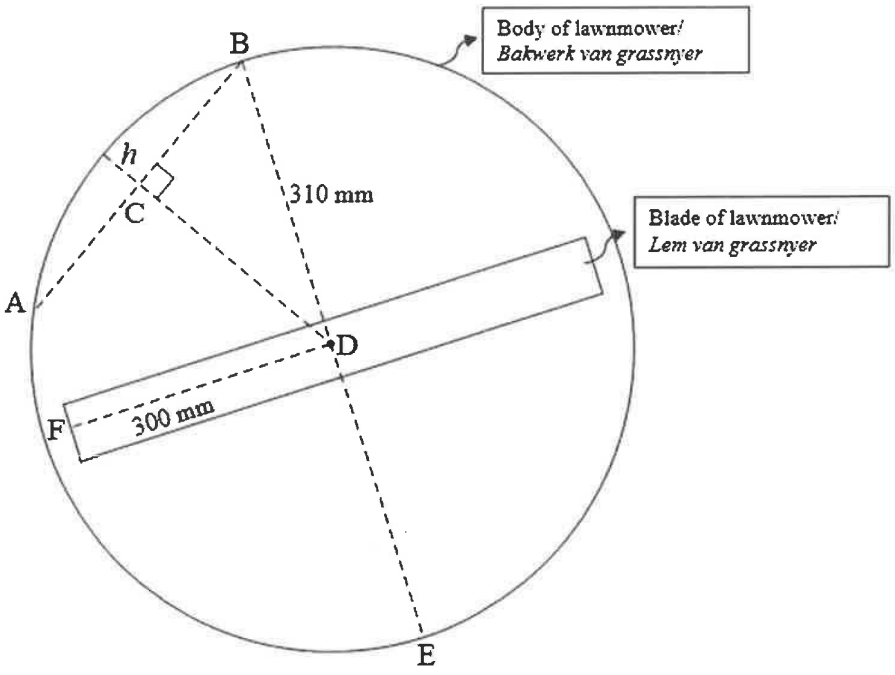
QUESTION/*VRAAG* 10

10.1



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

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	Solution/*Oplossing*	**Marks** ***Punte***
10.1.3		(5)

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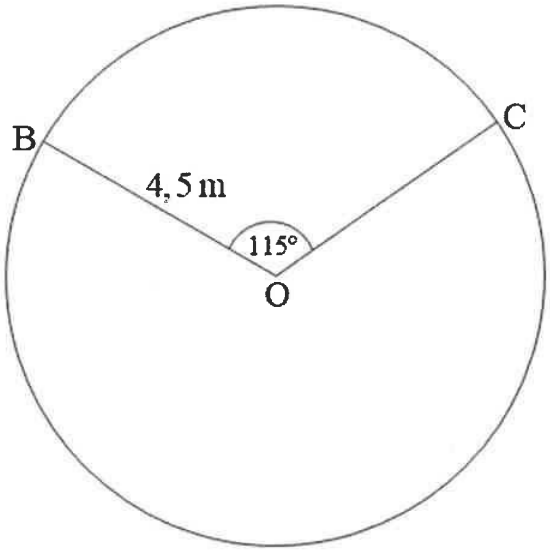
10.2



	Solution/*Oplossing*	**Marks** ***Punte***
10.2.1		(1)
10.2.2		(3)

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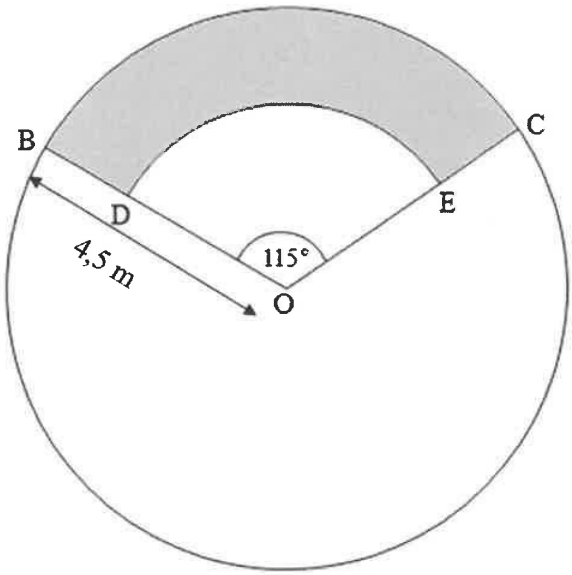
10.2.3



	Solution/*Oplossing*	Marks *Punte*
		(5)
		[20]

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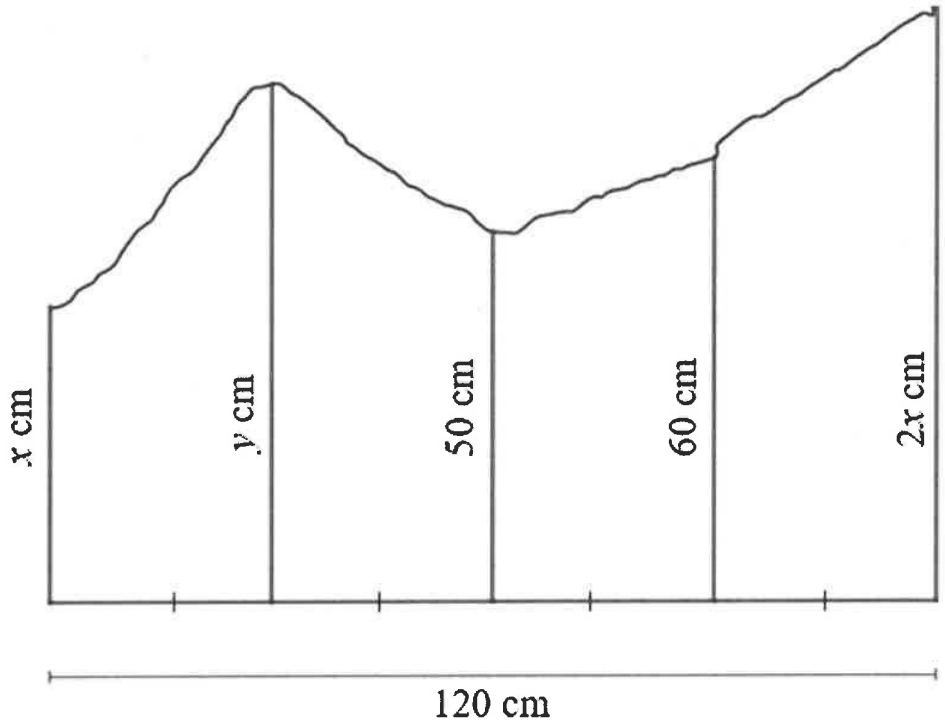
QUESTION/*VRAAG* 11

11.1



	Solution/*Oplossing*	**Marks** ***Punte***
11.1.1		(1)
11.1.2		(1)
11.1.3		(4)

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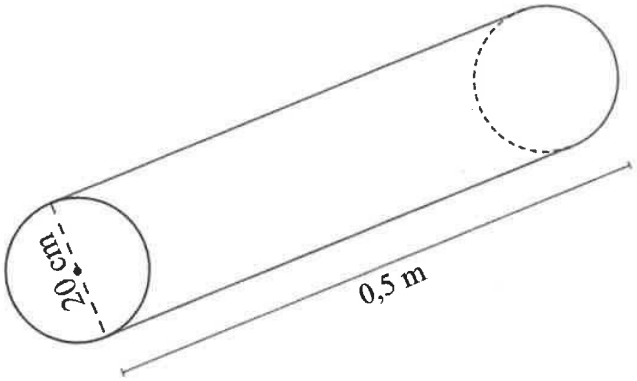
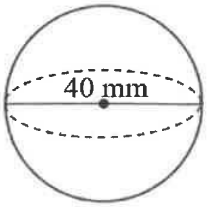
11.2

Dimensions of cylindrical steel rod/*Afmetings van silindriese staalstaaf*	**Dimensions of steel ball bearing/*Afmetings van staal-koeëllaer***
	

	Solution/*Oplossing*	**Marks *Punte***
11.2.1		(1)
11.2.2		(2)
11.2.3		(2)

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11.2.4		(6)
		[17]

TOTAL/*TOTAAL*: 150

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

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RE-MARK/RE-CHECK/ *HERNASIEN/HERKONTROLEER*				
Question *Vraag*	**Marks/*Punte***			**Initials/*Paraaf***
1				
2				
3				
4				
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7				
8				
9				
10				
11				

TOTAL *TOTAAL*				
HASH TOTAL *KAFTOTAAL*				

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