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

SC/NSC Answer Book  
SS/NSS-antwoordeboek

**CENTRE NUMBER**  
**SENTRUMNOMMER**

**EXAMINATION NUMBER**  
**EKSAMENNOMMER**

DATE  
DATUMBOOK 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											

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

PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY	VOLG ASSEBLIEF HIERDIE INSTRUKSIES NOUKEURIG
<ol style="list-style-type: none"> <li>1. Clearly write your examination number and centre number in the space provided and attach your barcode label in the space provided.</li> <li>2. Remember that your own name (or the name of your school) may NOT appear anywhere on or in this answer book.</li> <li>3. Answer ALL questions in the spaces provided.</li> <li>4. NO pages may be torn from this answer book.</li> <li>5. Read the instructions printed on your timetable carefully as well as any other instructions which may be given in each question paper.</li> <li>6. Candidates may NOT retain an answer book or remove it from the examination room.</li> <li>7. Answers must be written in black/blue ink as distinctly as possible. Do NOT write in the margins.</li> <li>8. Write the numbers of the questions you have answered on the front cover of the answer book where marks are to be recorded.</li> <li>9. If you require additional space for your answers:               <ol style="list-style-type: none"> <li>9.1 Use the additional space provided at the end of the answer book.</li> <li>9.2 When answering a question in the additional space, clearly indicate the question number in the column on the LHS.</li> <li>9.3 Rule off after each answer.</li> </ol> </li> <li>10. Draw a neat line through any work/rough work that must not be marked.</li> </ol>	<ol style="list-style-type: none"> <li>1. <i>Skryf jou eksamennommer en sentrumnummer duidelik in die ruimtes verskaf en plak jou stafieskodeplakker in die ruimte verskaf.</i></li> <li>2. <i>Onthou dat jou eie naam (of die naam van jou skool) NIE op of in hierdie antwoordeboek mag voorkom NIE.</i></li> <li>3. <i>Beantwoord ALLE vrae in die ruimtes wat verskaf is.</i></li> <li>4. <i>GEEN bladsye mag uit hierdie antwoordeboek geskeur word NIE.</i></li> <li>5. <i>Lees die instruksies, wat op jou eksamenrooster gedruk is, sorgvuldig deur, asook enige ander instruksies wat op elke vraestel gegee word.</i></li> <li>6. <i>GEEN antwoordeboek mag deur die kandidaat behou of uit die eksamenlokaal verwyder word NIE.</i></li> <li>7. <i>Skryf die antwoorde so duidelik moontlik met swart/blou ink. Laat die kantlyne oop.</i></li> <li>8. <i>Skryf die nommers van die vrae wat jy beantwoord het op die voorblad van die antwoordeboek waar die punte aangebring word.</i></li> <li>9. <i>In geval jy bykomende ruimte benodig vir jou antwoorde:</i> <ol style="list-style-type: none"> <li>9.1 <i>Gebruik die bykomende ruimte wat aan die einde van die antwoordeboek verskaf word.</i></li> <li>9.2 <i>As 'n vraag in die bykomende ruimte beantwoord word, dui duidelik die vraagnommer in die kolom aan die LK aan.</i></li> <li>9.3 <i>Trek 'n lyn na elke antwoord.</i></li> </ol> </li> <li>10. <i>Trek 'n netjiese lyn deur enige werk/rofwerk wat nie nagesien moet word nie.</i></li> </ol>

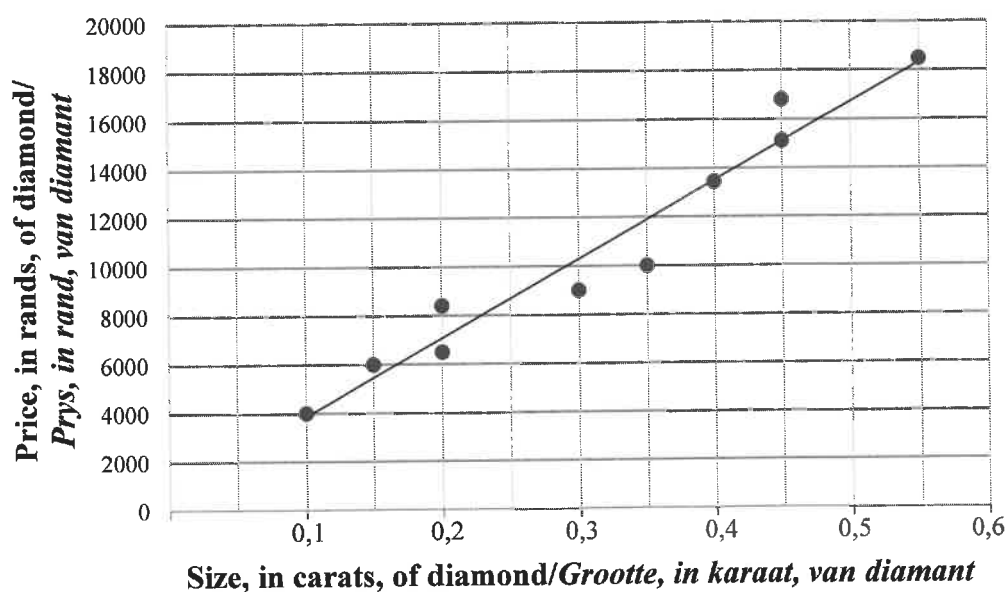
## QUESTION/VRAAG 1

	Solution/Oplissing	Marks Punte																								
1.1		(1)																								
1.2	<table border="1"> <thead> <tr> <th>MASS (in kg)/ MASSA (in kg)</th><th>FREQUENCY/ FREKWENSIE</th><th>CUMULATIVE FREQUENCY/ KUMULATIEWE FREKWENSIE</th></tr> </thead> <tbody> <tr> <td><math>5 &lt; m \leq 7</math></td><td>6</td><td></td></tr> <tr> <td><math>7 &lt; m \leq 9</math></td><td>18</td><td></td></tr> <tr> <td><math>9 &lt; m \leq 11</math></td><td>21</td><td></td></tr> <tr> <td><math>11 &lt; m \leq 13</math></td><td>19</td><td></td></tr> <tr> <td><math>13 &lt; m \leq 15</math></td><td>11</td><td></td></tr> <tr> <td><math>15 &lt; m \leq 17</math></td><td>4</td><td></td></tr> <tr> <td><math>17 &lt; m \leq 19</math></td><td>1</td><td></td></tr> </tbody> </table>	MASS (in kg)/ MASSA (in kg)	FREQUENCY/ FREKWENSIE	CUMULATIVE FREQUENCY/ KUMULATIEWE FREKWENSIE	$5 < m \leq 7$	6		$7 < m \leq 9$	18		$9 < m \leq 11$	21		$11 < m \leq 13$	19		$13 < m \leq 15$	11		$15 < m \leq 17$	4		$17 < m \leq 19$	1		(2)
MASS (in kg)/ MASSA (in kg)	FREQUENCY/ FREKWENSIE	CUMULATIVE FREQUENCY/ KUMULATIEWE FREKWENSIE																								
$5 < m \leq 7$	6																									
$7 < m \leq 9$	18																									
$9 < m \leq 11$	21																									
$11 < m \leq 13$	19																									
$13 < m \leq 15$	11																									
$15 < m \leq 17$	4																									
$17 < m \leq 19$	1																									
1.3	<p style="text-align: center;"><b>Ogive/Ogief</b></p>	(3)																								

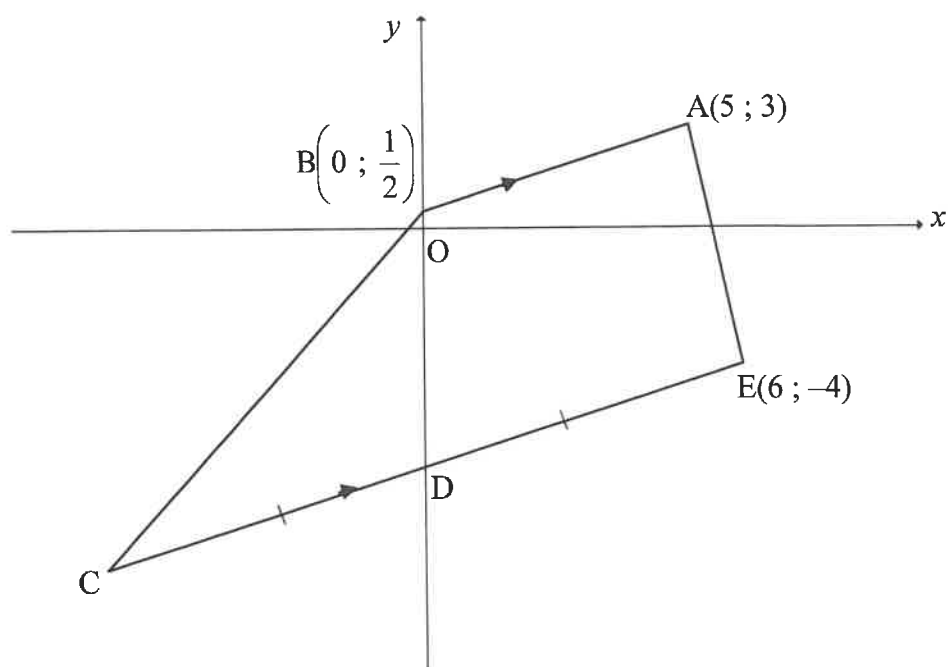
	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
1.4		(2)
1.5.1		(2)
1.5.2		(2)
		<b>[12]</b>

**QUESTION/VRAAG 2**

<b>Size, in carats, of diamond (x)/ Grootte, in karaat, van diamant (x)</b>	0,1	0,15	0,2	0,2	0,3	0,35	0,4	0,45	0,45	0,55
<b>Price, in rands, of diamond (y)/ Prys, in rand, van diamant (y)</b>	4 000	6 000	6 500	8 400	9 000	10 000	13 440	15 120	16 800	18 480

**SCATTER PLOT / SPREIDIAGRAM**

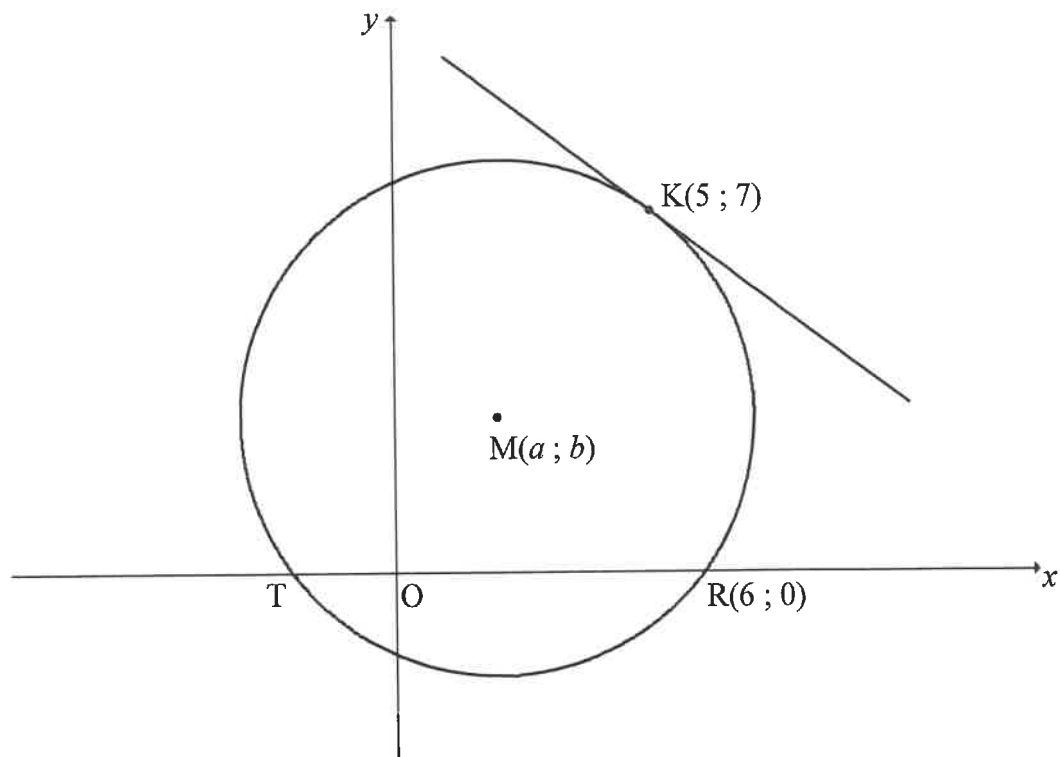
	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
2.1		(3)
2.2		(2)
2.3		(2)
2.4		(1)
		<b>[8]</b>

**QUESTION/VRAAG 3**

	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
3.1		(2)
3.2		(3)
3.3.1		(3)

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
3.3.2		
		(4)
3.4.1		
		(2)
3.4.2(a)		
		(4)
3.4.2(b)		
		(3)
		<b>[21]</b>



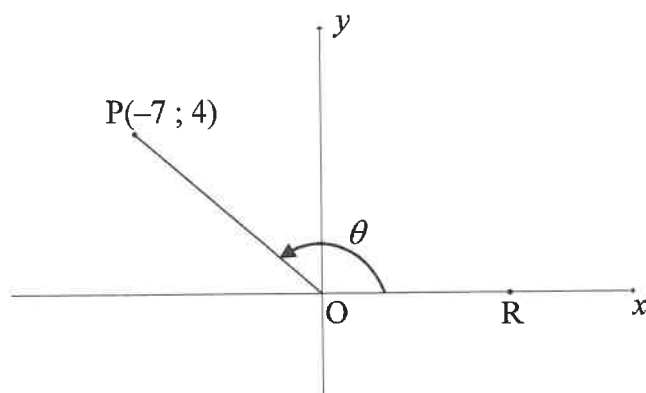
**QUESTION/VRAAG 4**

	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
4.1.1		(1)
4.1.2		(5)

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
4.2.1		(2)
4.2.2		(2)
4.3		(5)
4.4.1		(2)
4.4.2		(3)
		<b>[20]</b>

**QUESTION/VRAAG 5**

5.1

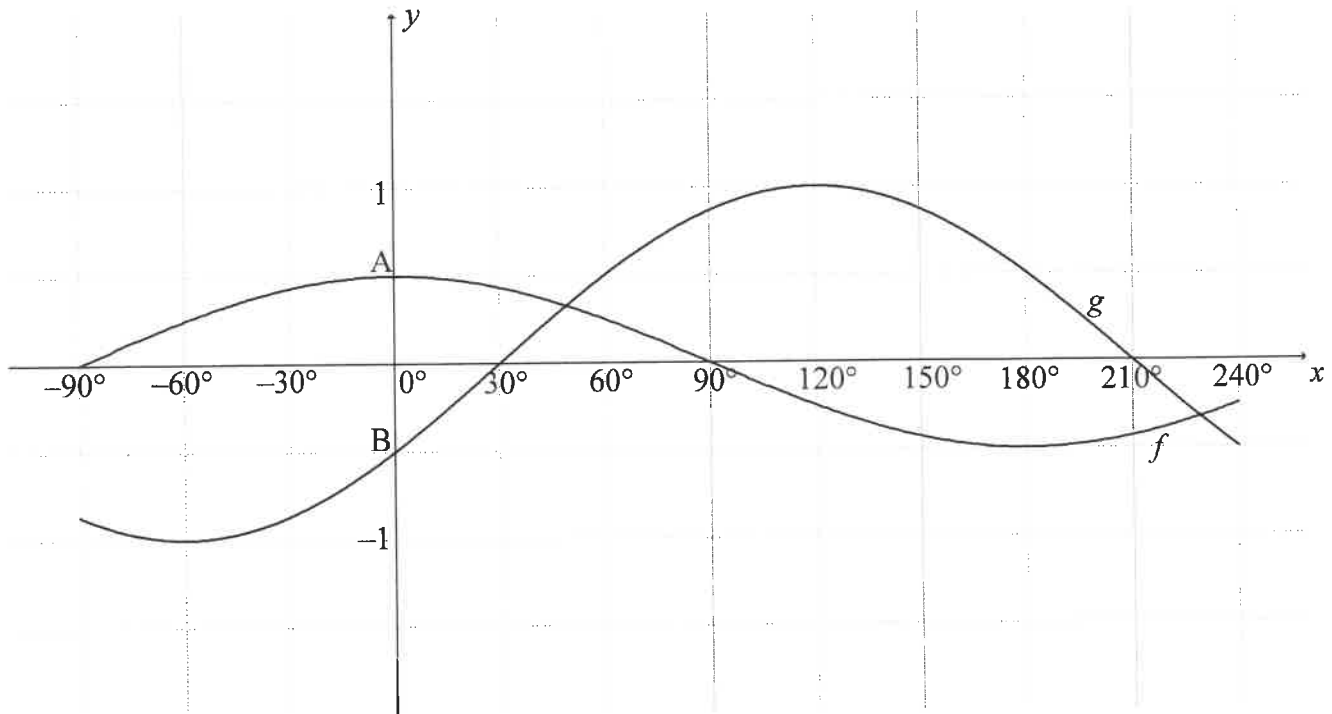


	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
5.1.1		(2)
5.1.2(a)		(1)
5.1.2(b)		(2)
5.2		(7)

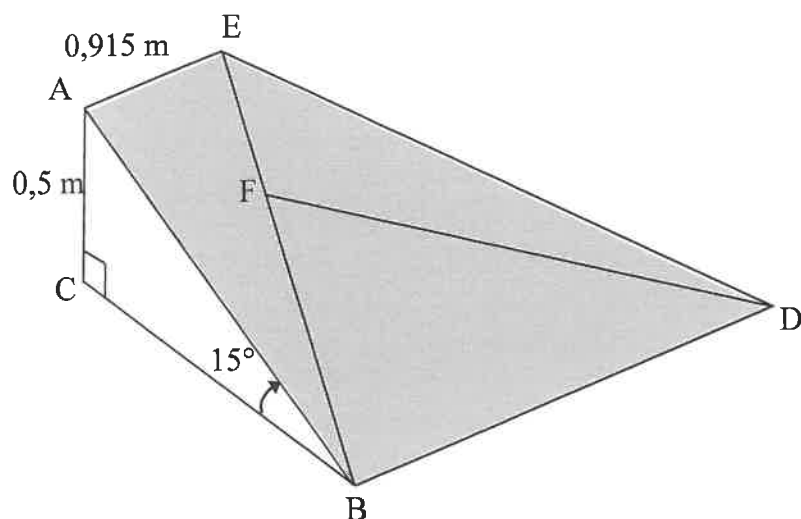
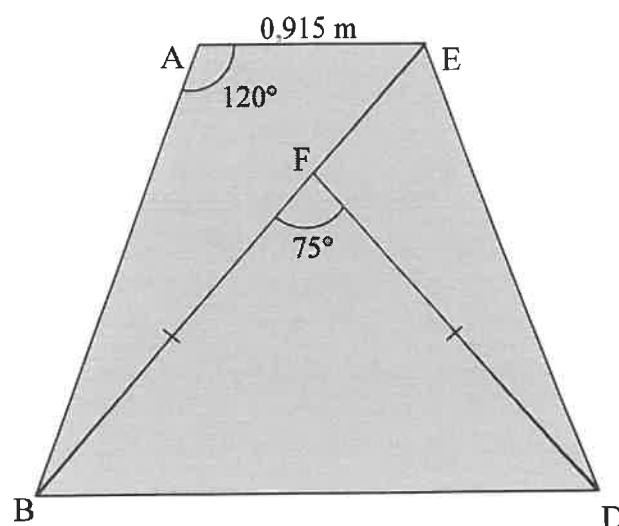
	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
5.3.1		(3)
5.3.2		(3)
		<b>[18]</b>

**QUESTION/VRAAG 6**

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
6.1		(6)
6.2.1		(3)
6.2.2		(3)
		<b>[12]</b>

**QUESTION/VRAAG 7**

	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
7.1		(2)
7.2		(2)
7.3		(2)
7.4.1		(2)
7.4.2		(2)
		<b>[10]</b>

**QUESTION/VRAAG 8****FIGURE I/FIGUUR I****FIGURE II (top view)/FIGUUR II (boeaansig)**

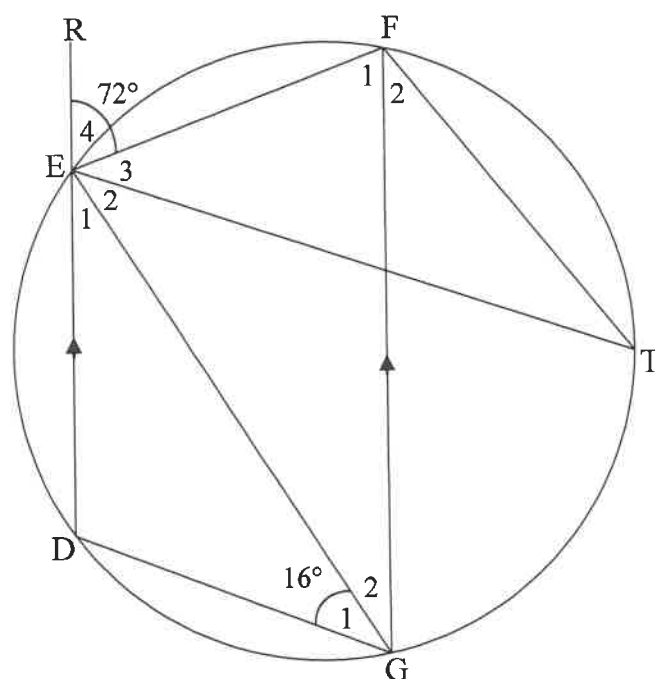
	<b>Solution/Oplissing</b>	<b>Marks Punte</b>
8.1		(2)
8.2		(3)
8.3		(3)
		<b>[8]</b>

Give reasons for your statements in QUESTIONS 9 en 10.

Gee redes vir jou bewerings in VRAAG 9 en 10.

### QUESTION/VRAAG 9

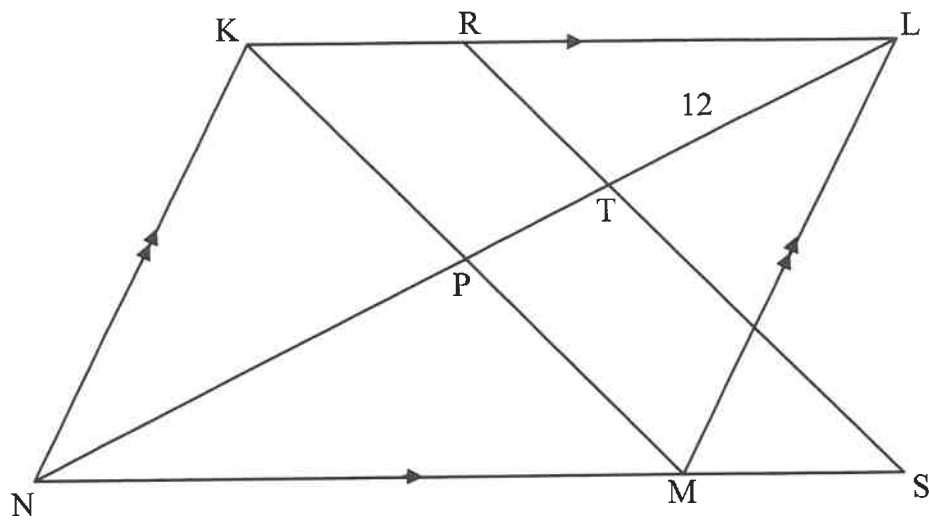
9.1



	Solution/Oplissing	Marks Punte
9.1.1		(2)
9.1.2		(2)
9.1.3		(2)



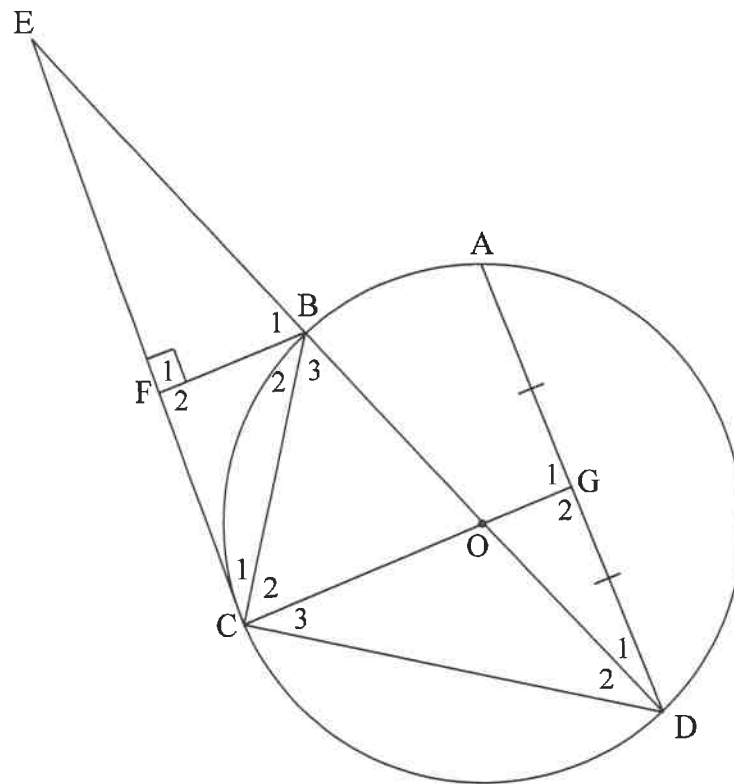
9.2



	Solution/Oplissing	Marks Punte
9.2.1		
		(4)
9.2.2		
		(2)
9.2.3		
		(4)
		[16]



10.2



	Solution/Oplossing	Marks Punte
10.2.1(a)		(3)

	<b>Solution/Oplossing</b>	<b>Marks Punte</b>
10.2.1(b)		
		(5)
10.2.2		
		(1)
10.2.3		
		(5)
10.2.4		
		(5)
		<b>[25]</b>

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

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

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





<b>RE-MARK/RE-CHECK HERMERK/HERSIEN</b>				
<b>Question <i>Vraag</i></b>	<b>Marks <i>Punte</i></b>			<b>Initials <i>Voorletters</i></b>
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
TOTAL TOTAAL				
HASH TOTAL KAF- TOTAAL				