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

NSC Answer Book  
*NSS-antwoordeboek*

**CENTRE NUMBER**  
**SENTRUMNOMMER**

**EXAMINATION NUMBER**  
**EKSAMENNUMMER**

Sequence No. on mark sheet  
Volgnommer op puntstaat

DATE  
DATUM

BOOK NUMBER  
BOEKNOMMER

OF  
VAN

**BOOKS**  
*BOEKE*

**SUBJECT CODE**  
**VAKKODE**

PAPER NUMBER  
VRAESTELNOMMER

2

SUBJECT NAME  
VAKNAAM

**MATHEMATICS/WISKUNDE**

**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.

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| 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 eksamennummer en sentrumnummer duidelik in die ruimtes soos verskaf en plak jou stafieskodeplakker in die ruimte soos 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 voorsien 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 op elke eksamen vraestel 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. In geval jy addisionele ruimte benodig vir jou antwoorde:                                                                                         |
| 9.1 Use the additional space provided at the end of the answer book.                                                                         | 9.1 Gebruik die addisionele ruimte wat aan die einde van die antwoordeboek voorsien 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 addisionele 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.                                                                     |



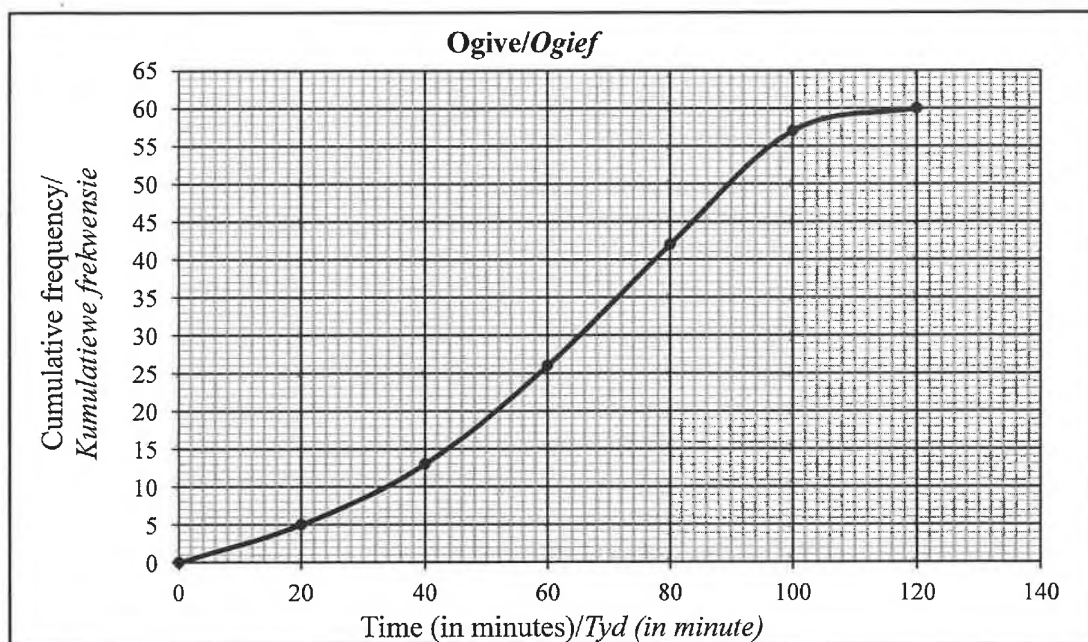


**QUESTION/VRAAG 1 .**

|                                                                                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>Weight (in kg)/<br/>Gewig (in kg)<br/>(x)</b>                                  | 34 | 32 | 40 | 27 | 33 | 28 | 27 | 55 | 39 | 44 | 30 | 57 | 28 | 32 | 31 |
| <b>Number of<br/>push-ups per<br/>minute/Getal<br/>opstote per<br/>minuut (y)</b> | 26 | 21 | 6  | 20 | 16 | 26 | 23 | 7  | 18 | 14 | 17 | 8  | 28 | 25 | 20 |

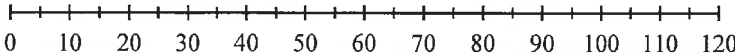
|     | <b>Solution/Oplissing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 1.1 |                           | (3)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 1.2 |                           | (1)                    |
|     |                           |                        |
|     |                           |                        |
| 1.3 |                           | (2)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 1.4 |                           | (1)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 1.5 |                           | (1)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 1.6 |                           | (2)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           | <b>[10]</b>            |



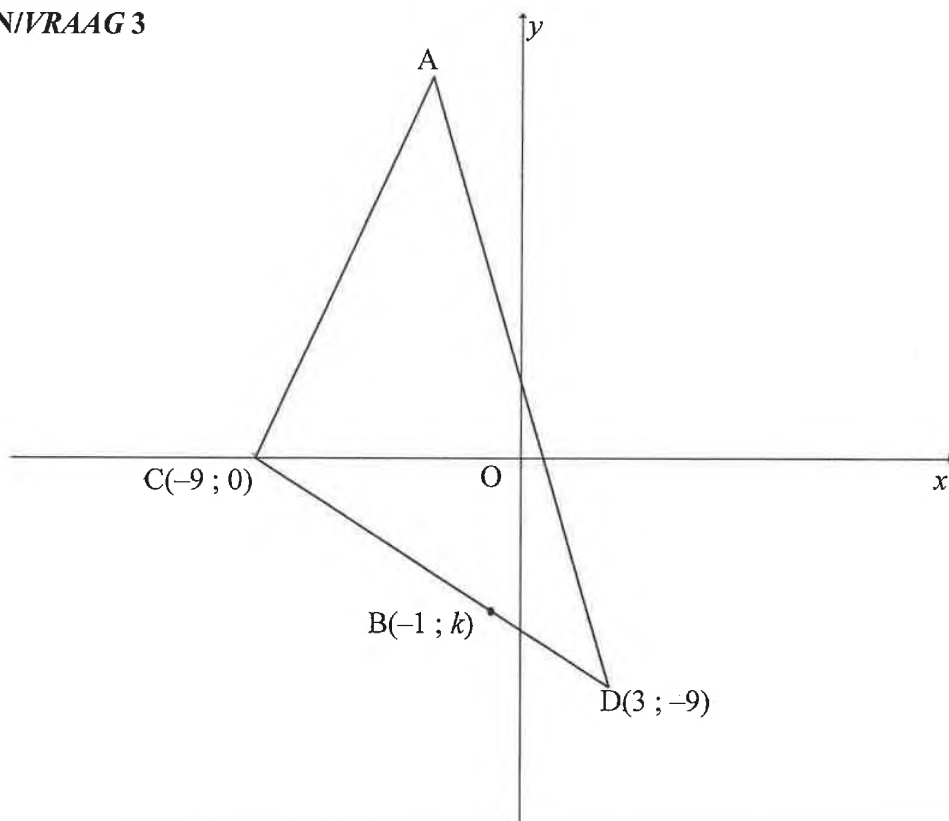
**QUESTION/VRAAG 2**

|     | <b>Solution/Oplossing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 2.1 |                           | (1)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 2.2 |                           | (1)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 2.3 |                           | (2)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |



|     | Solution/Oplissing                                                                 | Marks<br>Punte |
|-----|------------------------------------------------------------------------------------|----------------|
| 2.4 |  | (2)            |
| 2.5 | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>                                    | (2)            |
| 2.6 | <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>                  | (2)            |
|     |                                                                                    | [10]           |



**QUESTION/VRAAG 3**

|     | <b>Solution/Oplissing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 3.1 |                           | (2)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 3.2 |                           | (2)                    |
|     |                           |                        |
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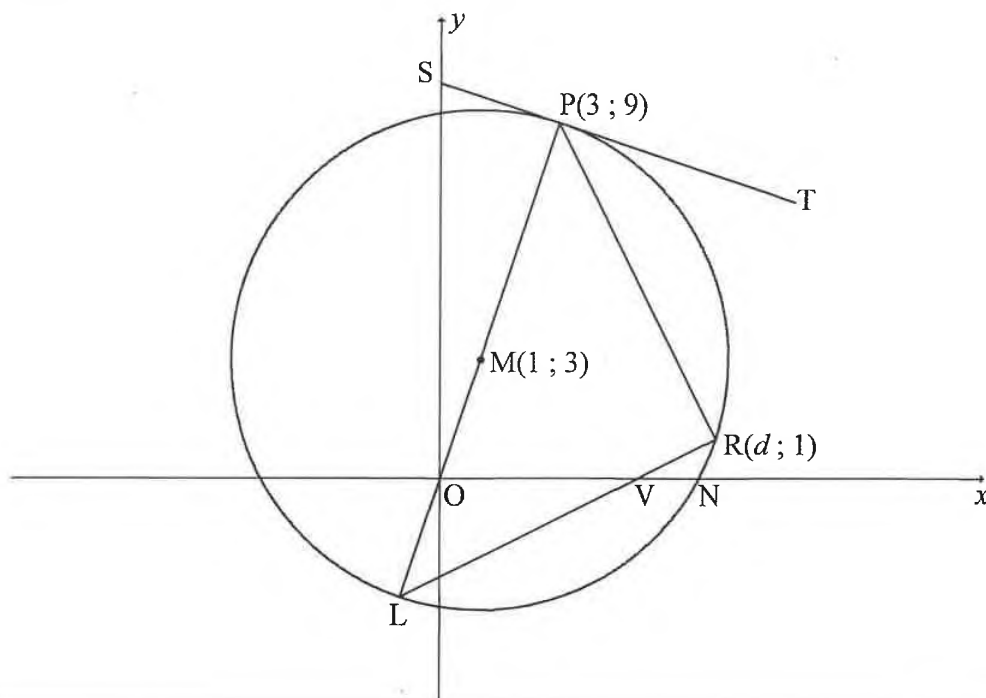
|     | <b>Solution/Oplossing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 3.3 |                           | (1)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 3.4 |                           | (2)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
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|     |                           |                        |
| 3.5 |                           | (2)                    |
|     |                           |                        |
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| 3.6 |                           | (4)                    |
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**QUESTION/VRAAG 4**

|     | <b>Solution/Oplossing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 4.1 |                           | (2)                    |
|     |                           |                        |
|     |                           |                        |
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| 4.2 |                           | (4)                    |
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|     | <b>Solution/Oplissing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 4.3 |                           | (4)                    |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
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|     |                           |                        |
|     |                           |                        |
| 4.4 |                           | (2)                    |
|     |                           |                        |
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|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
| 4.5 |                           | (5)                    |
|     |                           |                        |
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|     | <b>Solution/Oplissing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 4.6 |                           |                        |
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|     |                           | (3)                    |
|     |                           | [20]                   |



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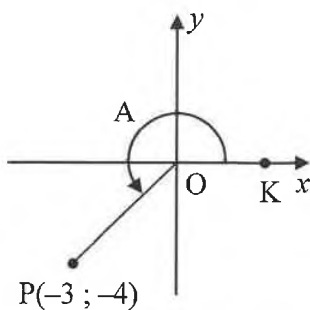
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**QUESTION/VRAAG 5**

5.1



|       | <b>Solution/Oplossing</b> | <b>Marks<br/>Punte</b> |
|-------|---------------------------|------------------------|
| 5.1.1 |                           | (2)                    |
|       |                           |                        |
|       |                           |                        |
|       |                           |                        |
|       |                           |                        |
| 5.1.2 |                           | (2)                    |
|       |                           |                        |
|       |                           |                        |
|       |                           |                        |
|       |                           |                        |
| 5.1.3 |                           | (4)                    |
|       |                           |                        |
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|     | <b>Solution/Oplissing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 5.2 |                           |                        |
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|     |                           | (4)                    |
|     |                           | [12]                   |



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**QUESTION/VRAAG 6**

|       | <b>Solution/Oplossing</b> | <b>Marks<br/>Punte</b> |
|-------|---------------------------|------------------------|
| 6.1.1 |                           | (2)                    |
|       |                           |                        |
|       |                           |                        |
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|       |                           |                        |
|       |                           |                        |
| 6.1.2 |                           | (6)                    |
|       |                           |                        |
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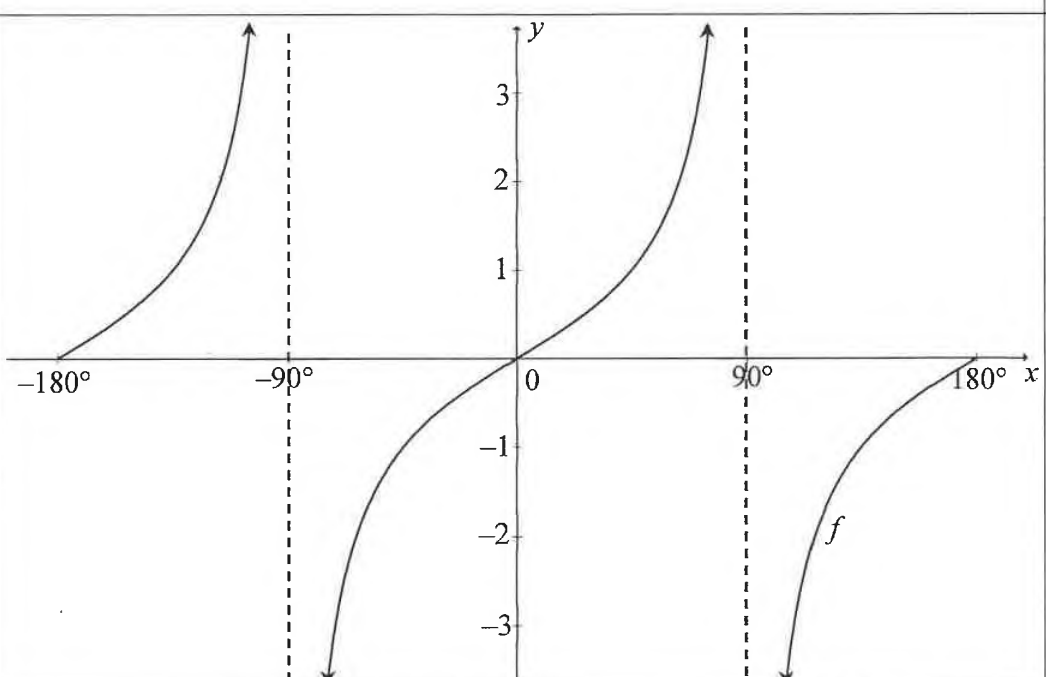
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|       | <b>Solution/Oplissing</b> | <b>Marks<br/>Punte</b> |
|-------|---------------------------|------------------------|
| 6.2   |                           | (6)                    |
|       |                           |                        |
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| 6.3.1 |                           | (3)                    |
|       |                           |                        |
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| 6.3.2 |                           | (1)                    |
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|       |                           |                        |
|       |                           | <b>[18]</b>            |



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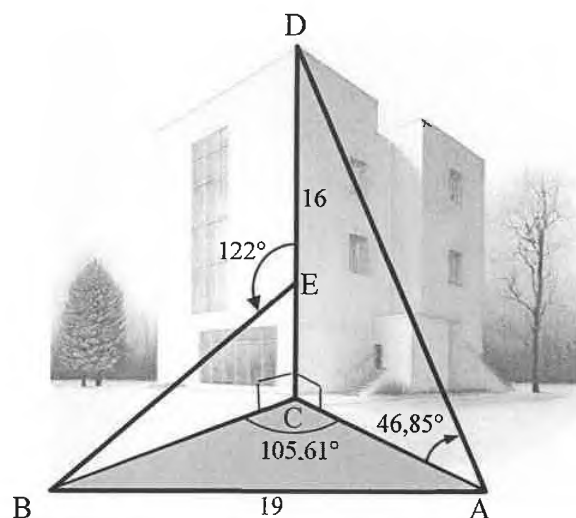
## QUESTION/VRAAG 7

|       | Solution/Oplissing                                                                  | Marks<br>Punte |
|-------|-------------------------------------------------------------------------------------|----------------|
| 7.1   |                                                                                     | (1)            |
|       |                                                                                     |                |
| 7.2   |                                                                                     | (2)            |
|       |                                                                                     |                |
| 7.3.1 |                                                                                     | (1)            |
|       |                                                                                     |                |
| 7.3.2 |  | (3)            |
| 7.4   |                                                                                     | (4)            |
|       |                                                                                     |                |
|       |                                                                                     |                |
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|       |                                                                                     | [11]           |





## QUESTION/VRAAG 8



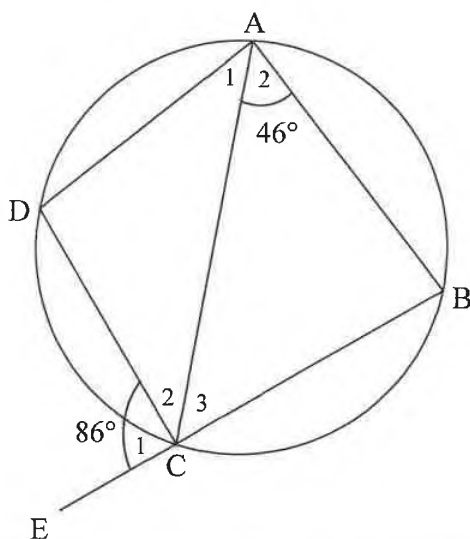
|     | Solution/Oplissing | Marks<br>Punte |
|-----|--------------------|----------------|
| 8.1 |                    |                |
|     |                    |                |
|     |                    |                |
|     |                    |                |
|     |                    | (2)            |
| 8.2 |                    |                |
|     |                    |                |
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|     |                    |                |
|     |                    | (7)            |
|     |                    | [9]            |



Provide reasons for your statements in QUESTIONS 9, 10 and 11.

Verskaf redes vir jou bewerings in VRAAG 9, 10 en 11.

**QUESTION/VRAAG 9**

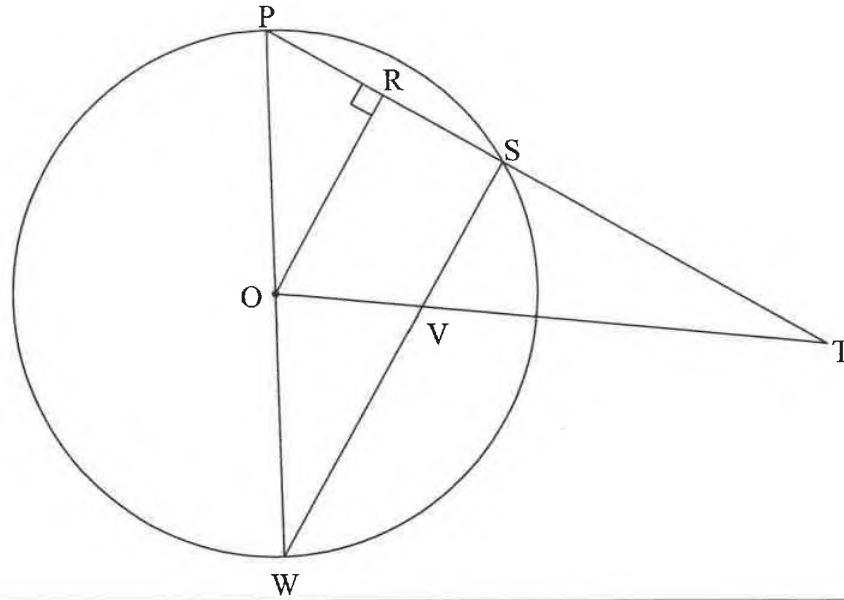


|     | <b>Solution/Oplossing</b> | <b>Marks<br/>Punte</b> |
|-----|---------------------------|------------------------|
| 9.1 |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           |                        |
|     |                           | (2)                    |
| 9.2 |                           |                        |
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|     |                           |                        |
|     |                           |                        |
|     |                           | (4)                    |
|     |                           | [6]                    |





10.2



|        | Solution/Oplossing | Marks<br>Punte |
|--------|--------------------|----------------|
| 10.2.1 |                    | (5)            |
|        |                    |                |
|        |                    |                |
|        |                    |                |
|        |                    |                |
|        |                    |                |
|        |                    |                |
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|        |                    |                |
|        |                    |                |
| 10.2.2 |                    | (4)            |
|        |                    |                |
|        |                    |                |
|        |                    |                |
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|        |                    |                |
|        |                    | [15]           |



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| RE-MARK/RE-CHECK<br>HERMER/HERSIEN |                |  |  |                         |
|------------------------------------|----------------|--|--|-------------------------|
| Question<br>Vraag                  | Marks<br>Punte |  |  | Initials<br>Voorletters |
| 1                                  |                |  |  |                         |
| 2                                  |                |  |  |                         |
| 3                                  |                |  |  |                         |
| 4                                  |                |  |  |                         |
| 5                                  |                |  |  |                         |
| 6                                  |                |  |  |                         |
| 7                                  |                |  |  |                         |
| 8                                  |                |  |  |                         |
| 9                                  |                |  |  |                         |
| 10                                 |                |  |  |                         |
| 11                                 |                |  |  |                         |
|                                    |                |  |  |                         |
|                                    |                |  |  |                         |
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|                                    |                |  |  |                         |
|                                    |                |  |  |                         |
| TOTAL<br>TOTAAL                    |                |  |  |                         |
| HASH<br>TOTAL<br>KAF-<br>TOTAAL    |                |  |  |                         |

