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Province of the  
**EASTERN CAPE**  
EDUCATION

Iphondo leMpuma Kapa: Isebe leMfundu  
Provincie van die Oos-Kaap: Departement van Onderwys  
Porafensie Ya Kapa Botjhabelo: Lefapha la Thuto

LEARNER'S NAME:  
**LEERDER SE NAAM:**

GRADE/GRAAD 12

**NATIONAL/NASIONALE  
SENIOR  
CERTIFICATE/SERTIFIKAAT**

**GRADE 12/GRAAD 12**

**JUNE/JUNIE 2025**

**MATHEMATICS P2/WISKUNDE V2  
SPECIAL ANSWER BOOK/SPESIALE ANTWOORDEBOEK**

| Marker/Merker           |                |                     | Moderator's Initials / Moderator se paraaf |        |                |        |                |        |                |        |  |
|-------------------------|----------------|---------------------|--|--------|----------------|--------|----------------|--------|----------------|--------|--|
| Question<br>Vraag       | Marks<br>Punte | Initial<br>Parafeer | Marks<br>Punte                             | S<br>M | Marks<br>Punte | D<br>M | Marks<br>Punte | P<br>M | Marks<br>Punte | N<br>M |  |
| 1                       |                |                     |  |        |                |        |                |        |                |        |  |
| 2                       |                |                     |  |        |                |        |                |        |                |        |  |
| 3                       |                |                     |  |        |                |        |                |        |                |        |  |
| 4                       |                |                     |  |        |                |        |                |        |                |        |  |
| 5                       |                |                     |  |        |                |        |                |        |                |        |  |
| 6                       |                |                     |  |        |                |        |                |        |                |        |  |
| 7                       |                |                     |  |        |                |        |                |        |                |        |  |
| 8                       |                |                     |  |        |                |        |                |        |                |        |  |
| 9                       |                |                     |  |        |                |        |                |        |                |        |  |
| 10                      |                |                     |  |        |                |        |                |        |                |        |  |
| <b>TOTAL<br/>TOTAAL</b> |                |                     |  |        |                |        |                |        |                |        |  |

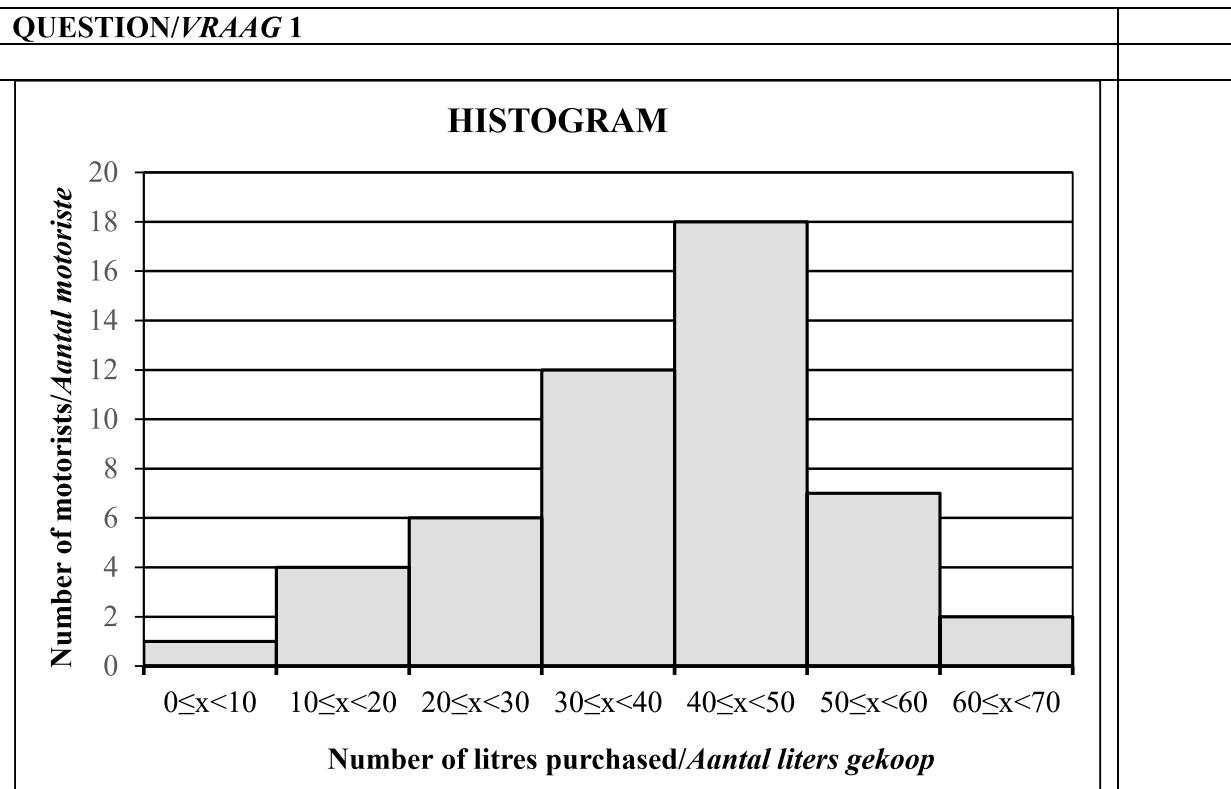
\*SM = School Moderator      \*DM = District Moderator      \*PM = Provincial Moderator      \*NM = National Moderator  
 \*SM = Skool Moderator      \*DM = Distrik Moderator      \*PM = Proviniale Moderator      \*NM = Nasionale Moderator

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

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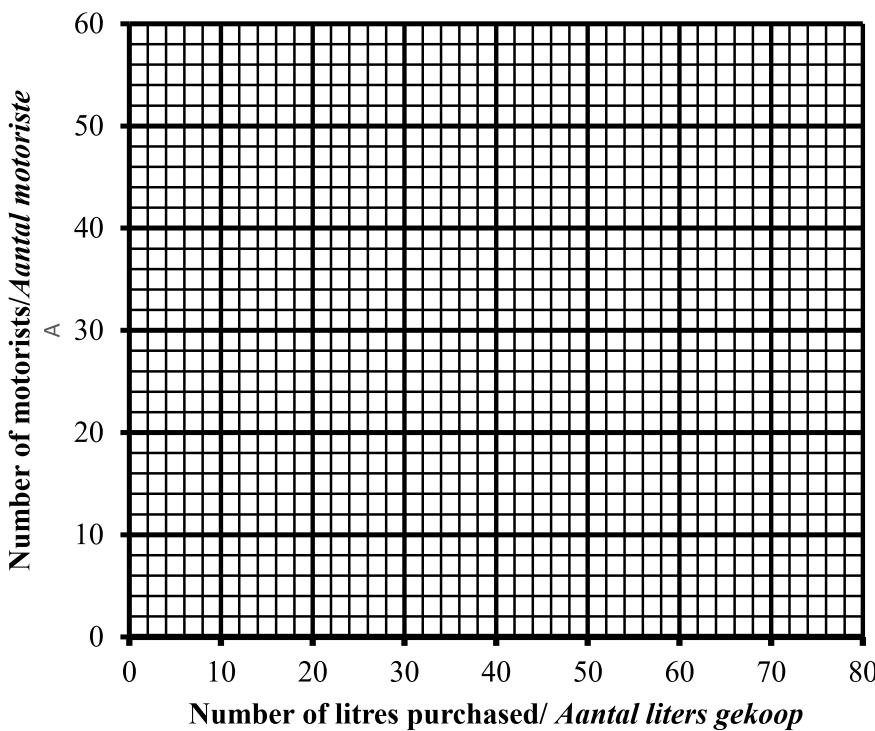


|  | <b>Solution/Oplossing</b>  | <b>Marks/Punte</b>                                     |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
|--|--|--|---------------------------------|--|------------|--|--|-------------|--|--|-------------|--|--|-------------|--|--|-------------|--|--|-------------|--|--|-------------|--|--|-----|
| 1.1  |  | (1)  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 1.2  |  | (1)  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 1.3  | <table border="1"> <thead> <tr> <th>No. of litres purchased<br/><i>Aantal liters gekoop</i></th> <th>Frequency/<br/><i>Frekwensie</i></th> <th>Cumulative Frequency/<br/><i>Kumulatiewe Frekwensie</i></th> </tr> </thead> <tbody> <tr><td>0 ≤ x &lt; 10</td><td></td><td></td></tr> <tr><td>10 ≤ x &lt; 20</td><td></td><td></td></tr> <tr><td>20 ≤ x &lt; 30</td><td></td><td></td></tr> <tr><td>30 ≤ x &lt; 40</td><td></td><td></td></tr> <tr><td>40 ≤ x &lt; 50</td><td></td><td></td></tr> <tr><td>50 ≤ x &lt; 60</td><td></td><td></td></tr> <tr><td>60 ≤ x &lt; 70</td><td></td><td></td></tr> </tbody> </table> | No. of litres purchased<br><i>Aantal liters gekoop</i> | Frequency/<br><i>Frekwensie</i> | Cumulative Frequency/<br><i>Kumulatiewe Frekwensie</i> | 0 ≤ x < 10 |  |  | 10 ≤ x < 20 |  |  | 20 ≤ x < 30 |  |  | 30 ≤ x < 40 |  |  | 40 ≤ x < 50 |  |  | 50 ≤ x < 60 |  |  | 60 ≤ x < 70 |  |  | (3) |
| No. of litres purchased<br><i>Aantal liters gekoop</i> | Frequency/<br><i>Frekwensie</i>  | Cumulative Frequency/<br><i>Kumulatiewe Frekwensie</i> |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 0 ≤ x < 10   |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 10 ≤ x < 20  |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 20 ≤ x < 30  |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 30 ≤ x < 40  |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 40 ≤ x < 50  |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 50 ≤ x < 60  |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |
| 60 ≤ x < 70  |  |  |                                 |  |            |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |             |  |  |     |



1.4

**CUMULATIVE FREQUENCY GRAPH/ OGIVE  
KUMULATIEWE FREKWENSIE GRAFIEK / OGIEF**



(3)

1.5

(1)

1.6

(3)

1.7

(2)

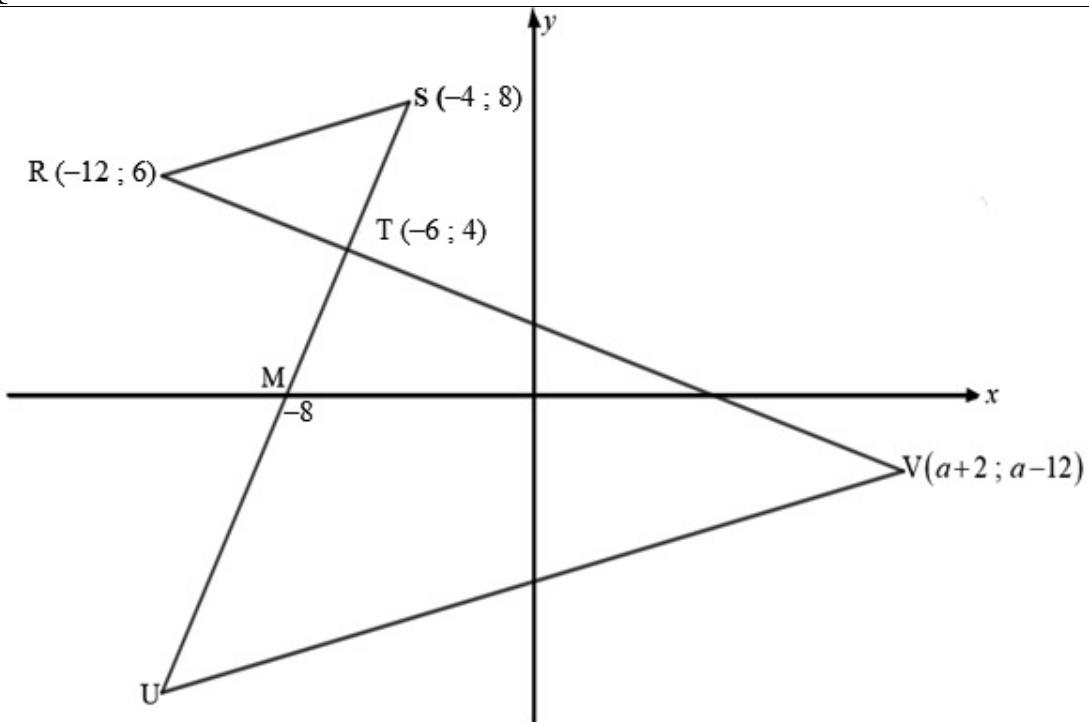
1.8

(2)

1.9

(2)

**[18]**

**QUESTION/VRAAG 2**

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



|     |  |     |
|-----|--|-----|
| 2.3 |  |     |
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|     |  |     |
|     |  |     |
|     |  |     |
|     |  |     |
|     |  | (3) |
| 2.4 |  |     |
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|     |  |     |
|     |  |     |
|     |  |     |
|     |  |     |
|     |  | (2) |
| 2.5 |  |     |
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|     |  |     |
|     |  |     |
|     |  |     |
|     |  | (3) |

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|     |      |
|-----|------|
| 2.6 |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     | (4)  |
| 2.7 |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     |      |
|     | (4)  |
|     | [20] |



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**QUESTION/VRAAG 3**

The diagram shows a circle centered at the origin  $O$  of a Cartesian coordinate system. A horizontal chord  $BC$  passes through the x-axis at point  $T$ . A vertical chord  $AC$  passes through the y-axis at point  $S$ . Point  $A$  is located in the second quadrant. Line segments  $AB$  and  $AC$  are drawn. The x-axis is labeled  $x$  and the y-axis is labeled  $y$ .

|     | <b>Solution/<i>Oplossing</i></b> | <b>Marks/<br/><i>Punte</i></b> |
|-----|----------------------------------|--------------------------------|
| 3.1 |                                  |                                |
| 3.2 |                                  | (3)                            |



|       |  |     |
|-------|--|-----|
| 3.3   |  |     |
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|       |  |     |
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|       |  |     |
|       |  |     |
|       |  | (3) |
| 3.4.1 |  |     |
|       |  |     |
|       |  | (2) |
| 3.4.2 |  |     |
|       |  |     |
|       |  | (2) |
| 3.4.3 |  |     |
|       |  |     |
|       |  |     |
|       |  |     |
|       |  |     |
|       |  |     |
|       |  | (3) |



|       |  |      |
|-------|--|------|
| 3.4.4 |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  | (4)  |
|       |  | [20] |

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| <b>QUESTION/VRAAG 4</b> |                           | <b>Marks/<br/>Punte</b> |
|-------------------------|---------------------------|-------------------------|
|                         | <b>Solution/Oplossing</b> |                         |
| 4.1.1                   |                           | (2)                     |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
| 4.1.2                   |                           | (3)                     |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
| 4.1.3                   |                           | (4)                     |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |
|                         |                           |                         |



|       |  |     |
|-------|--|-----|
| 4.2   |  |     |
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|       |  |     |
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|       |  |     |
|       |  |     |
|       |  |     |
|       |  | (6) |
| 4.3.1 |  |     |
|       |  |     |
|       |  |     |
|       |  |     |
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|       |  |     |
|       |  |     |
|       |  |     |
|       |  |     |
|       |  | (6) |



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(EC/JUNE/JUNIE 2025)

|       |  |      |
|-------|--|------|
| 4.3.2 |  |      |
|       |  |      |
|       |  |      |
|       |  | (2)  |
| 4.4.1 |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  | (4)  |
| 4.4.2 |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  | (2)  |
|       |  | [29] |

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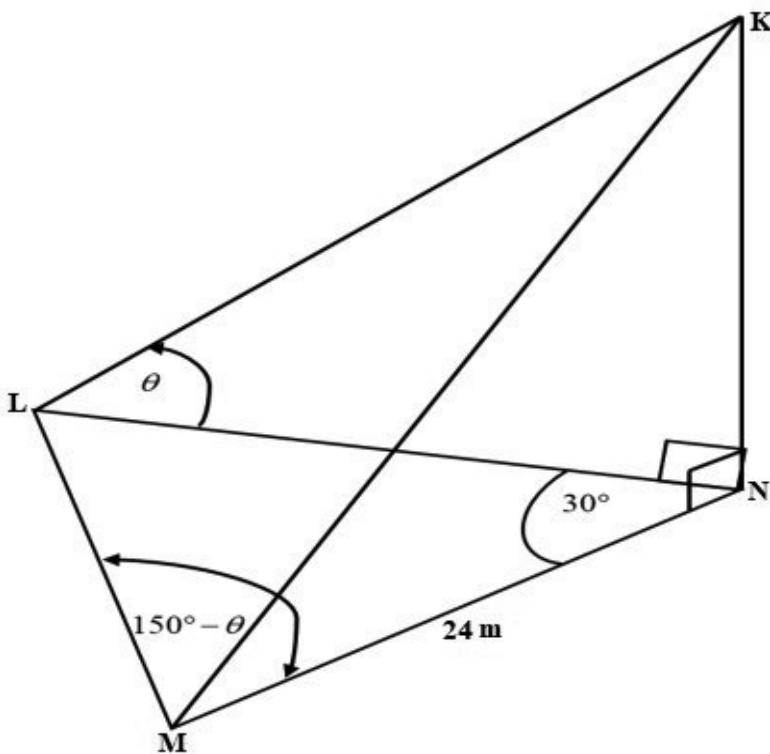
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| QUESTION/VRAAG 5 |                    | Marks/<br>Punte |
|------------------|--------------------|-----------------|
|                  | Solution/Oplossing |                 |
| 5.1              |                    | (1)             |
| 5.2              |                    |                 |
| 5.3              |                    | (2)             |
| 5.4              |                    | (3)             |
| 5.5              |                    | (1)             |
|                  |                    | (3)             |
|                  |                    | [10]            |

## **QUESTION/VRAAG 6**



|     | <b>Solution/<i>Oplossing</i></b> | <b>Marks/<br/><i>Punte</i></b> |
|-----|----------------------------------|--------------------------------|
| 6.1 |                                  | (1)                            |
| 6.2 |                                  | (4)                            |



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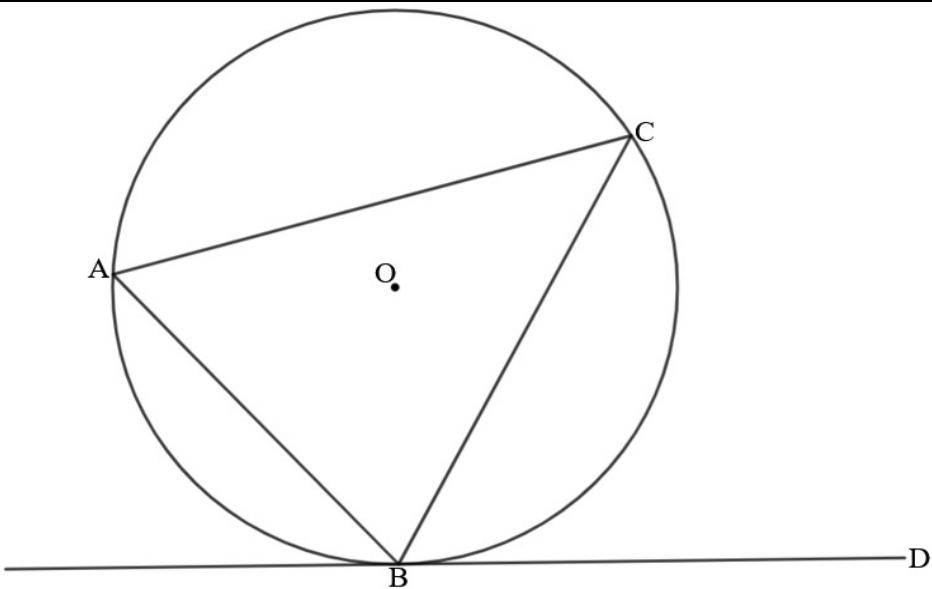
|     |  |             |
|-----|--|-------------|
| 6.3 |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  | (3)         |
| 6.4 |  |             |
|     |  |             |
|     |  |             |
|     |  |             |
|     |  | (3)         |
|     |  | <b>[11]</b> |

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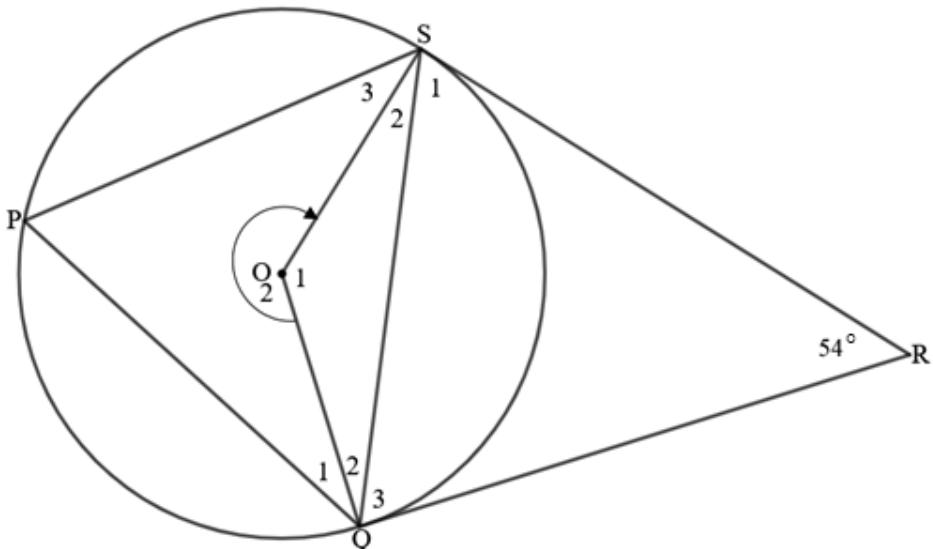
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**QUESTION/VRAAG 7**

|     | <b>Solution/<i>Oplossing</i></b> | <b>Marks/<br/><i>Punte</i></b> |
|-----|----------------------------------|--------------------------------|
| 7.1 |                                  | (5)                            |





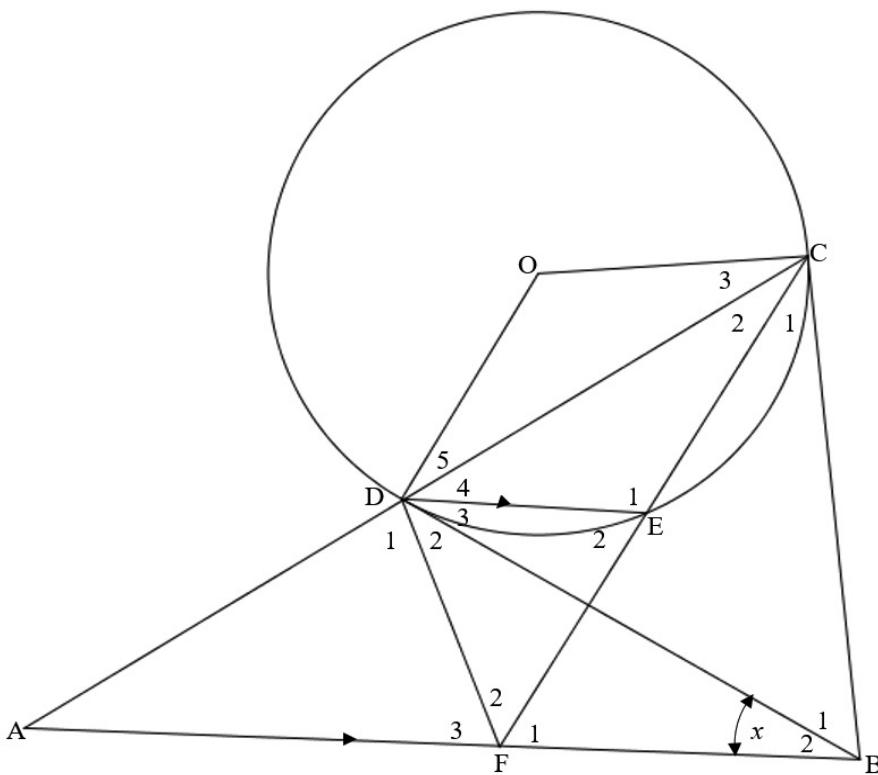
|       |  |      |
|-------|--|------|
| 7.2.1 |  | (4)  |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
|       |  |      |
| 7.2.2 |  | (2)  |
|       |  |      |
| 7.2.3 |  | (2)  |
|       |  |      |
|       |  |      |
|       |  | [13] |



| <b>QUESTION/VRAAG 8</b> |                                  |                                |
|-------------------------|----------------------------------|--------------------------------|
|                         | <b>Solution/<i>Oplossing</i></b> | <b>Marks/<br/><i>Punte</i></b> |
| 8.1                     |                                  |                                |
|                         |                                  |                                |
|                         |                                  |                                |
|                         |                                  |                                |
|                         |                                  |                                |
|                         |                                  |                                |
|                         |                                  |                                |
| 8.2                     |                                  |                                |
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| 8.3 |  |      |
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|     |  |      |
|     |  |      |
|     |  | (3)  |
|     |  |      |
| 8.4 |  |      |
|     |  |      |
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|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  |      |
|     |  | (3)  |
|     |  |      |
|     |  | [14] |



**QUESTION/VRAAG 9**

|     | <b>Solution/<i>Oplossing</i></b> | <b>Marks/<br/>Punte</b> |
|-----|----------------------------------|-------------------------|
| 9.1 |                                  | (4)                     |
| 9.2 |                                  | (4)                     |



|     |                      |            |
|-----|----------------------|------------|
| 9.3 |                      |            |
|     |                      |            |
|     |                      |            |
|     |                      |            |
|     |                      |            |
|     |                      | (4)        |
| 9.4 |                      |            |
|     |                      |            |
|     |                      |            |
|     |                      |            |
|     |                      |            |
|     |                      | (3)        |
|     |                      | [15]       |
|     |                      |            |
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