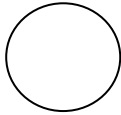




SC/NSC Answer Book
SS/NSS-Incwadi Yokuphendula

Senior Certificate/National Senior Certificate/Senior (Grade 12/Ibanga 12)

| | | | | | | | | | |
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| CENTRE NUMBER <i>INOMBOLO YESENTA</i> | | | | | | | | | |
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| EXAMINATION NUMBER <i>INIMBOLO YOVIWO</i> | | | | | | | | | | | | | | | |
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| BOOK NUMBER <i>INOMBOLO YENCWADI</i> | | OF <i>YE</i> | | BOOKS <i>NCWADI</i> |
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| SUBJECT CODE <i>IKHOWUDI YESIFUNDO</i> | | | | | |
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| PAPER NUMBER <i>INOMBOLO YEPHEPHA</i> | 2 |
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| SUBJECT NAME <i>IGAMA LESIFUNDO</i> | MATHEMATICS/MATHEMATIKA |
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| MARKER/ | | | MODERATOR'S INITIALS IN RELEVANT BLOCK | | | | | | | | | |
|---------------------------|--------------------------|-------------------------------|--|----|--------------------------|-----|--------------------------|----|--------------------------|----|--------------------------|----|
| Question <i>Umbuzo</i> | Marks <i>Amanqaku</i> | Marker's Code and Initials | Marks <i>Amanqaku</i> | SM | Marks <i>Amanqaku</i> | DCM | Marks <i>Amanqaku</i> | CM | Marks <i>Amanqaku</i> | IM | Marks <i>Amanqaku</i> | EM |
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| | | | TOTAL/ <i>AMANQAKU</i> EWONKE | | | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|

CONTROLLED AND CERTIFIED CORRECT
 (SURNAME AND INITIALS OF EA)/
 IPHATHWE YAZE YAQINISEKISWA
 NGOKWENENE (IFANI NE INISHIYALI ZE EA)

READ INSTRUCTIONS ON THE NEXT PAGE./
 FUNDA IMIYALELO KWIPHEPHA ELILANDELAYO.

This answer book consists of 23 pages./Lencwadi yokuphendulela iqulathe amaphepha ayi 23.

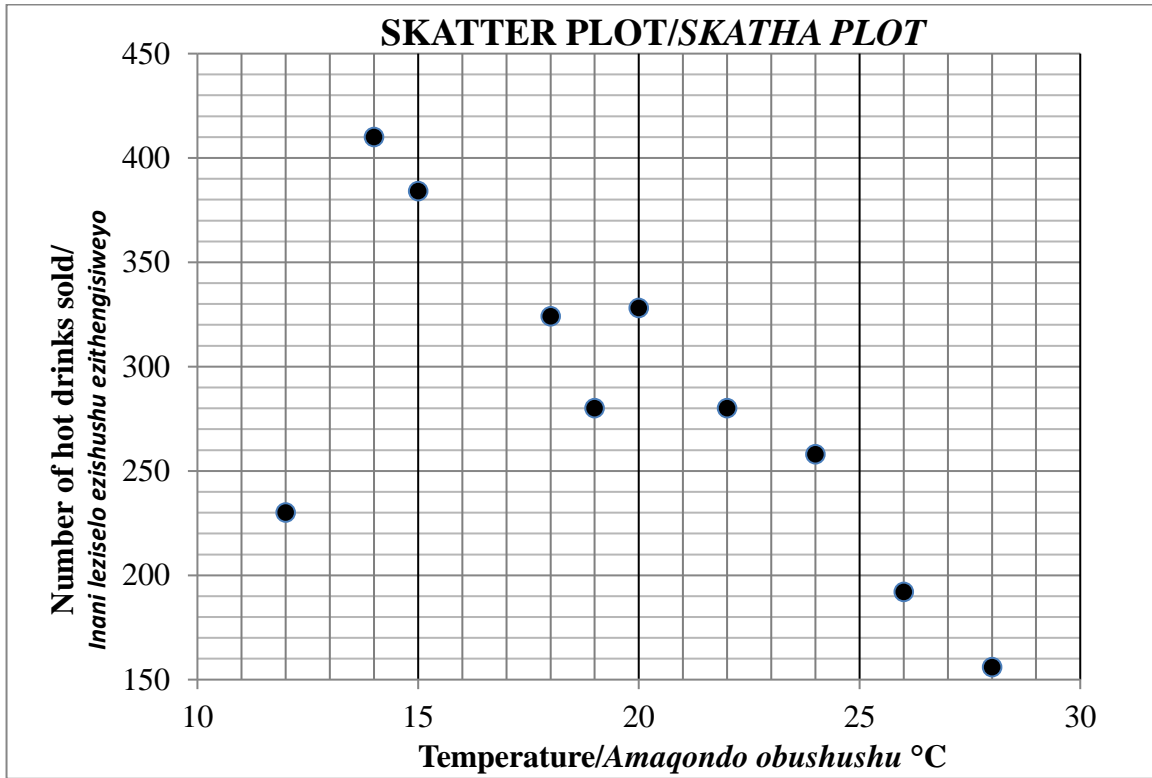


| PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY | NCEDA LANDELA LEMIYALELO ELANDELAYO |
|--|---|
| 1. Clearly write your examination number and centre number in the space provided and attach your barcode label in the space provided. | 1. <i>Bhala ngokucacileyo inombolo yakho yoviwo kwisithuba esinikeziweyo uze uncamathisele umbhalo onebhakhowudi kwisithuba esinikeziweyo</i> |
| 2. Remember that your own name (or the name of your school) may NOT appear anywhere on or in this answer book. | 2. <i>Khumbula ukuba igama lakho (okanye igama lesikolo) aliNOKUBONAKALA naphina okanye kule ncwadi yokuphendulela</i> |
| 3. Answer ALL questions in the spaces provided. | 3. <i>Phendula YONKE imibuzo kwisithuba esinikeziweyo</i> |
| 4. NO pages may be torn from this answer book. | 4. <i>AKUKHO pheoha omawilikrazule kulencwadi yokuphendulela</i> |
| 5. Read the instructions printed on your timetable carefully as well as any other instructions which may be given in each question paper. | 5. <i>Funda imiyalelo ebhaliweyo kwithaymthebhile yakho ngocoselelo nayo nayiphina eminye imiyalelo enonikezwa kwiphepha lemibuzo ngalinye</i> |
| 6. Candidates may NOT retain an answer book or remove it from the examination room. | 6. <i>Abafundi abaVUMELEKANGA ukugcina incwadi yokuphendulela okanye bayisuse kwigumbi lokubhalela</i> |
| 7. Answers must be written in black/blue ink as distinctly as possible. Do NOT write in the margins. | 7. <i>Iimpendulomazibhalwe ngeinki emnyama/ebhlu ngokucacileyo. Ungabhali kwimajini</i> |
| 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. <i>Bhala iinombolo zemibuzooyiphendulileyo kwiqweqwe langaphandle lencwadi yokuphendulela apho kuzofakwa khona amanqaku.</i> |
| 9. If you require additional space for your answers: 9.1 Use the additional space provided at the end of the answer book. 9.2 When answering a question in the additional space, clearly indicate the question number in the column on the LHS. 9.3 Rule off after each answer. | 9. <i>Ukuba ngaba udinga isithuba esongezelelweyo sokuphendulela: 9.1 Sebenzisa isithuba esongezelelweyo esinikezwe ekupheleni kwencwadi yokuphendulela. 9.2 Xa uphendula umbuzokwisithuba esongezelelweyo, bonisa ngokucacileyo inombolo kwikholam engasekhohlo 9.3 Kwrelela emva kombuzo ngamnye.</i> |
| 10. Draw a neat line through any work/rough work that must not be marked. | 10. <i>Zoba umgca ococekileyo kuwo nawuphina umsebenzi/umsebenzi nje ongazukumakishwa</i> |



QUESTION/UMBUZO 1

| | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Temperature/ Amaqondo obushushu (in °C / ngokwe °C) | 14 | 24 | 26 | 18 | 20 | 28 | 22 | 15 | 12 | 19 |
| Number of hot drinks sold Inani leziselo ezishushu ezithengisiweyo | 410 | 258 | 192 | 324 | 328 | 156 | 280 | 384 | 230 | 280 |

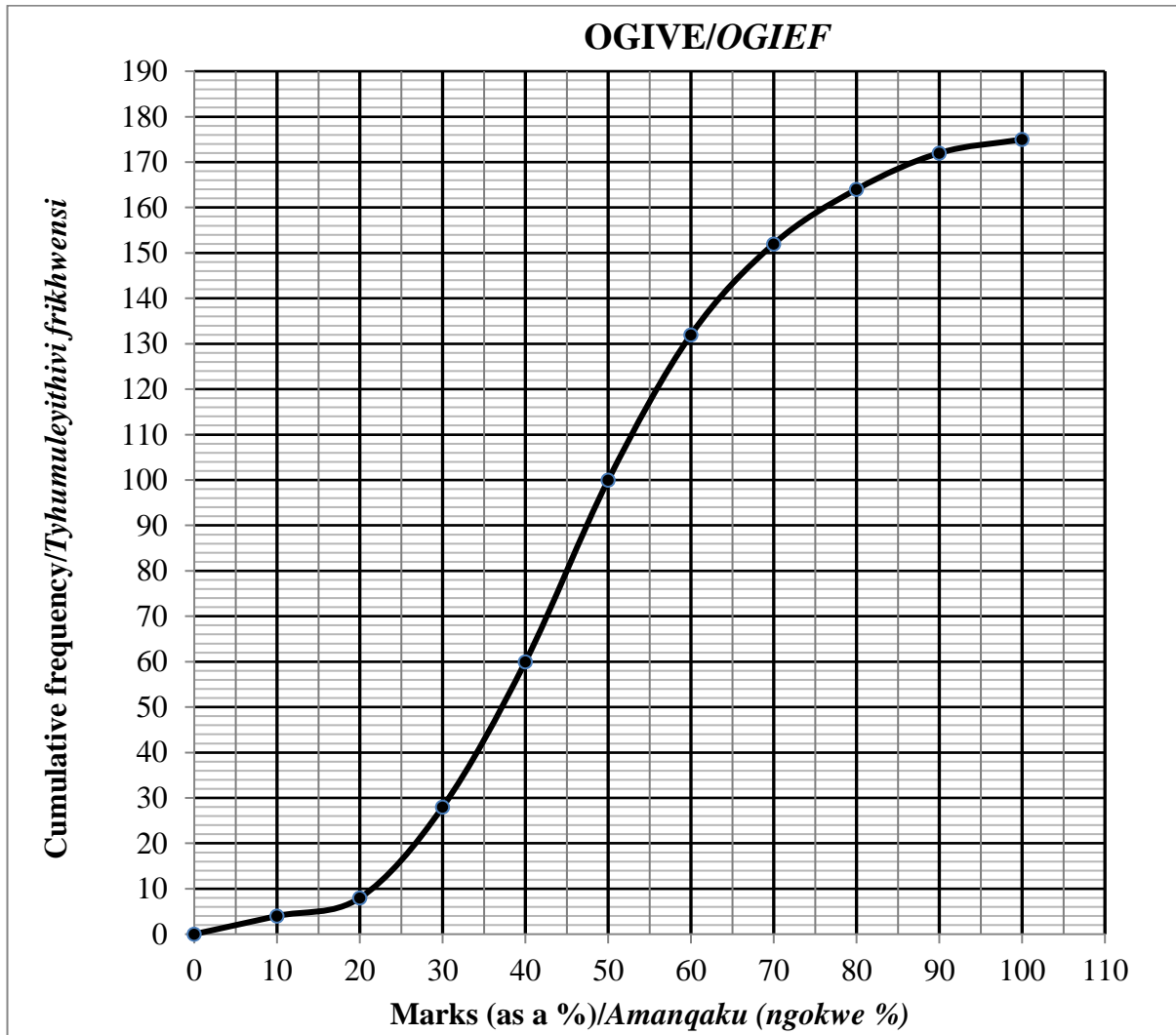


| | Solution/Isisombululo | Marks/ Amanqaku |
|-----|------------------------------|----------------------------|
| 1.1 | | (1) |
| | | |
| 1.2 | | (3) |
| | | |
| | | |
| 1.3 | | (3) |
| | | |
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| | | |
| 1.4 | | (1) |
| | | |
| | | [8] |



QUESTION/UMBUZO 2

2.1



| | Solution/Isisombululo | Marks/ Amanqaku |
|-------|------------------------------|----------------------------|
| 2.1.1 | | (1) |
| | | |
| | | |
| 2.1.2 | | (1) |
| | | |
| | | |
| 2.1.3 | | (2) |
| | | |
| | | |



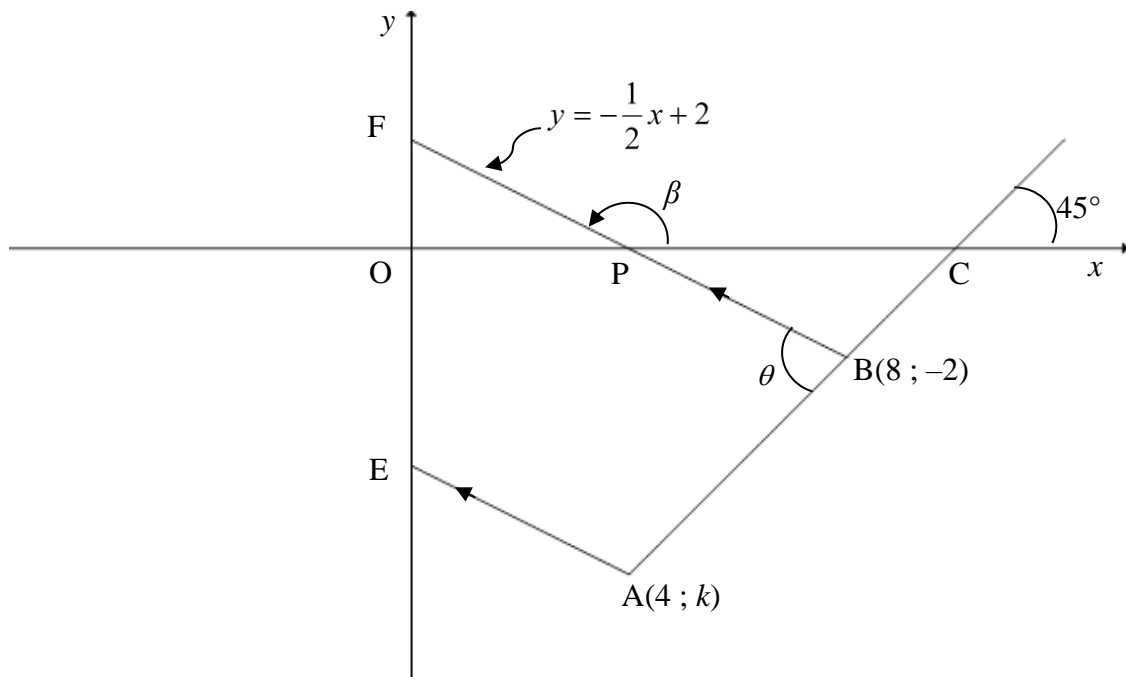
2.2

| | | | | | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|
| Marks (as a %) <i>Amanqaku</i> <i>(ngokwe %)</i> | 62 | 58 | 78 | 85 | 74 | 48 | 74 | 84 | 100 | 46 | 80 | 92 | 60 | 90 | 92 |
|---|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|

| | Solution/Isisombululo | Marks/ Amanqaku |
|-------|------------------------------|----------------------------|
| 2.2.1 | | (2) |
| | | |
| | | |
| 2.2.2 | | (1) |
| | | |
| | | |
| 2.2.3 | | (2) |
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| 2.3 | | (3) |
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| | | [12] |



QUESTION/ UMBUZO 3



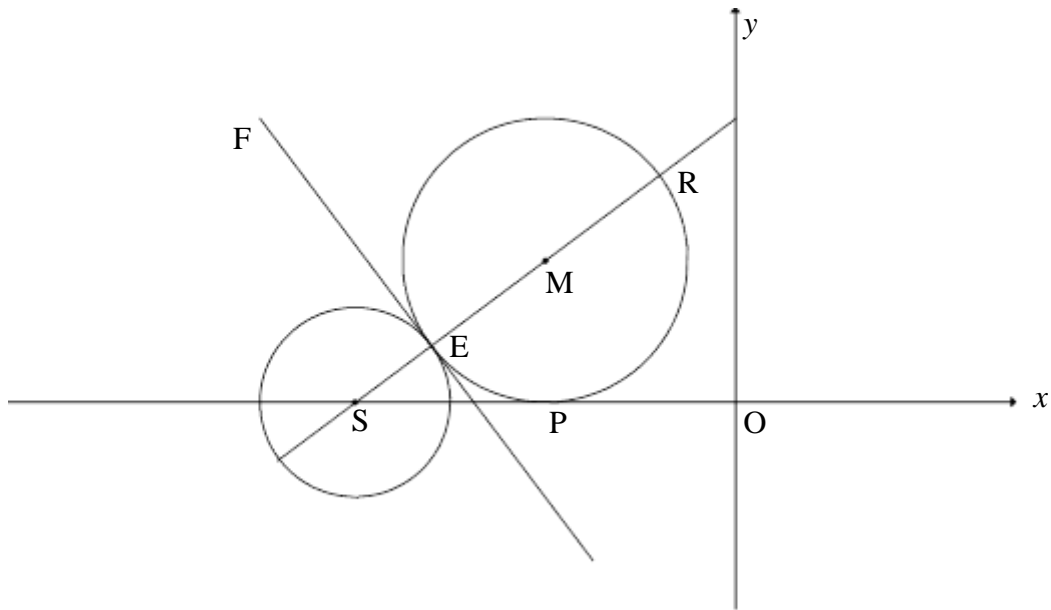
| | Solution/Isisombululo | Marks Amanqaku |
|-----|------------------------------|---------------------------|
| 3.1 | | (1) |
| | | |
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| 3.2 | | (2) |
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| 3.3 | | (3) |
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| | Solution/ <i>Isisombululo</i> | Marks <i>Amanqaku</i> |
|-------|--------------------------------------|----------------------------------|
| 3.4.1 | | (3) |
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| 3.4.2 | | (3) |
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| 3.4.3 | | (4) |
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| 3.5 | | (4) |
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| | [20] | |



QUESTION/ UMBUZO 4



| | Solution/ Isisombululo | Marks/ Amanqaku |
|-------|-------------------------------|------------------------|
| 4.1.1 | | (2) |
| | | |
| | | |
| 4.1.2 | | (1) |
| | | |
| | | |
| 4.2.1 | | (2) |
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| 4.2.2 | | |
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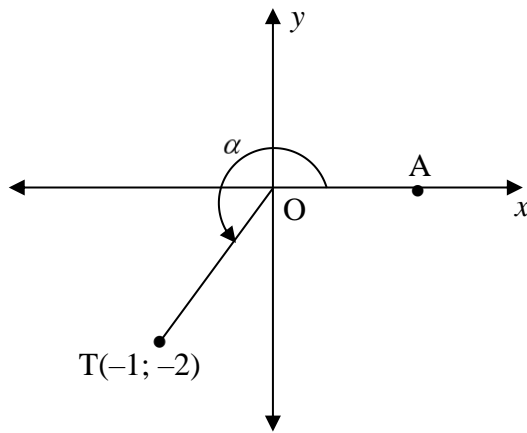


| | Solution/ <i>Isisombululo</i> | Marks/ <i>Amanqaku</i> |
|---------------------------------------|--------------------------------------|-------------------------------|
| 4.2.2 (cont./ <i>iyaqhubeka.</i>) | | (3) |
| | | |
| | | |
| 4.2.3 | | (4) |
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| 4.2.4 | | (2) |
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| 4.3 | | (5) |
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| | [19] | |



QUESTION/ UMBUZO 5

5.1



| | Solution/Isisombululo | Marks Amanqaku |
|-------|------------------------------|---------------------------|
| 5.1.1 | | (1) |
| | | |
| | | |
| 5.1.2 | | (2) |
| | | |
| | | |
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| | | |
| 5.1.3 | | (4) |
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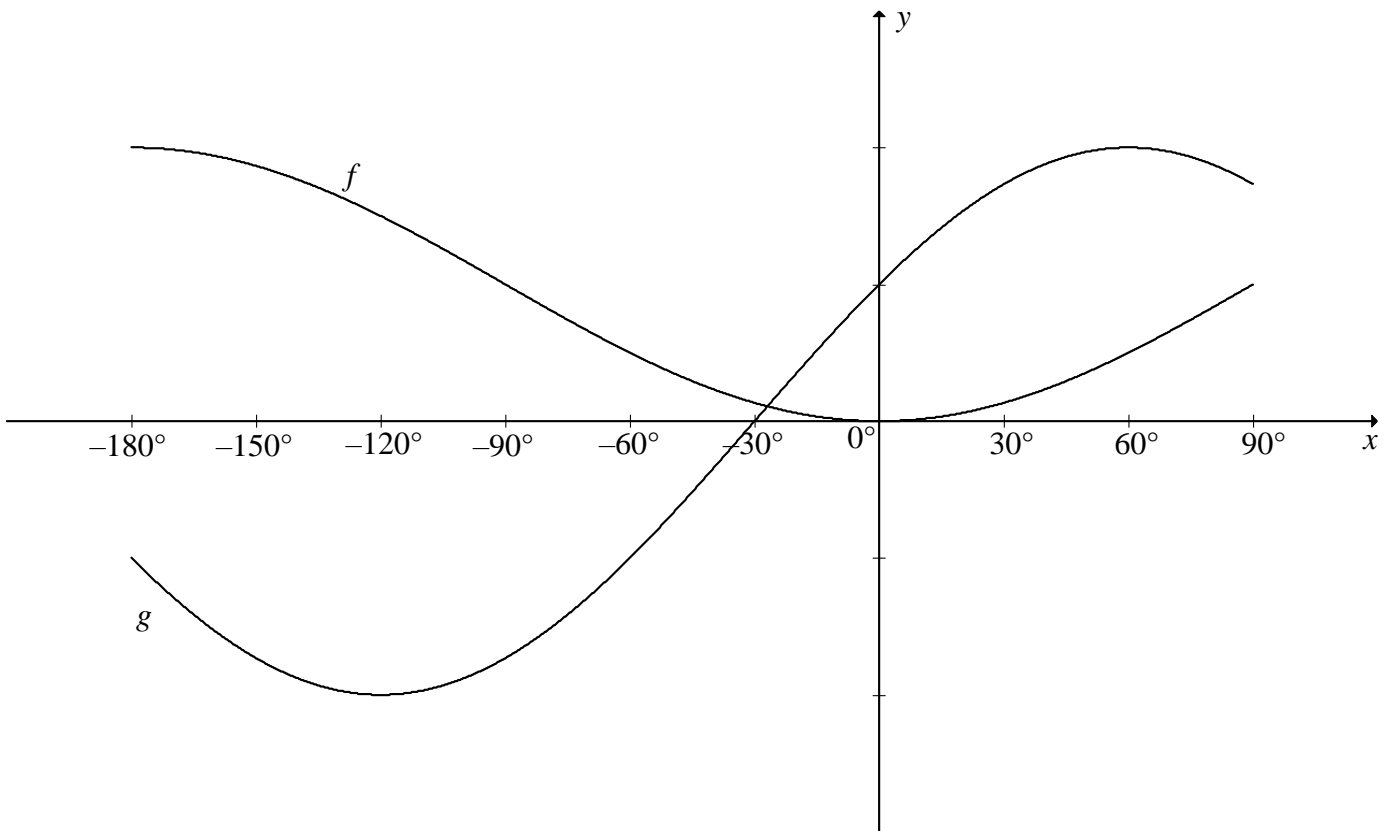
| | Solution/Isisombululo | Marks/ Amanqaku |
|-------|------------------------------|----------------------------|
| 5.2 | | (4) |
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| | | |
| 5.3.1 | | (4) |
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| | | |
| | | |
| | | |
| 5.3.2 | | (2) |
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| 5.4 | | |
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| | Solution/Isisombululo | Marks/ Amanqaku |
|---------------------------------------|------------------------------|----------------------------|
| 5.4 (cont./ <i>iyaqhubeka</i>) | | |
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| 5.5 | | |
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| | | (5) |
| | | (5) |
| | | [27] |



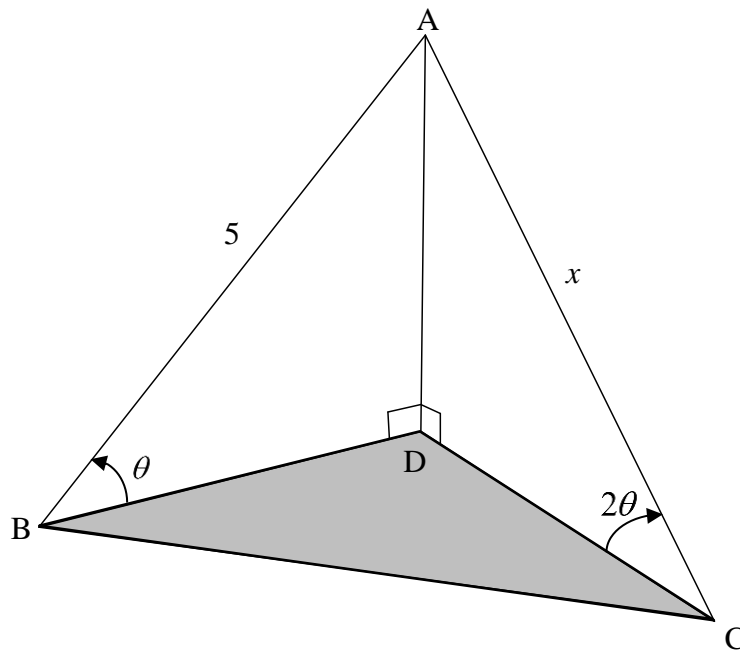
QUESTION/UMBUZO 6



| | Solution/ Isisombululo | Marks/ Amanqaku |
|-------|-------------------------------|------------------------|
| 6.1.1 | | (2) |
| | | |
| | | |
| | | |
| 6.1.2 | | (2) |
| | | |
| | | |
| | | |
| 6.2 | | (2) |
| | | |
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| | | |
| | | [6] |



QUESTION/UMBUZO 7



| | Solution/Isisombululo | Marks/ Amanqaku |
|-----|------------------------------|----------------------------|
| 7.1 | | (5) |
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| 7.2 | | (3) |
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| | | [8] |

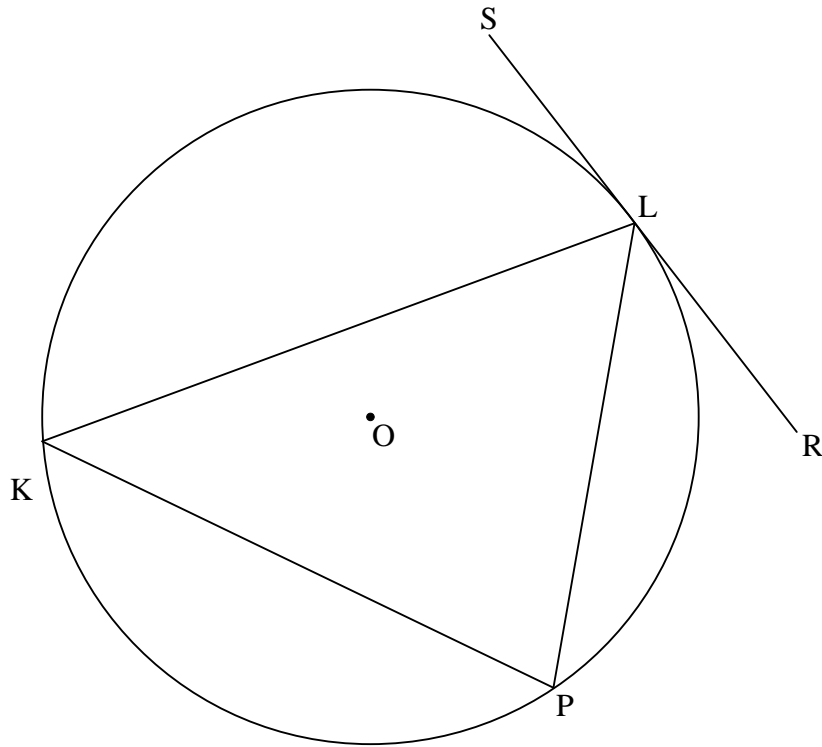


Give reasons for your statements in QUESTIONS 8, 9 and 10.

Nika ingxelo kwiMIBUZO 8, 9 no 10.

QUESTION/UMBUZO 8

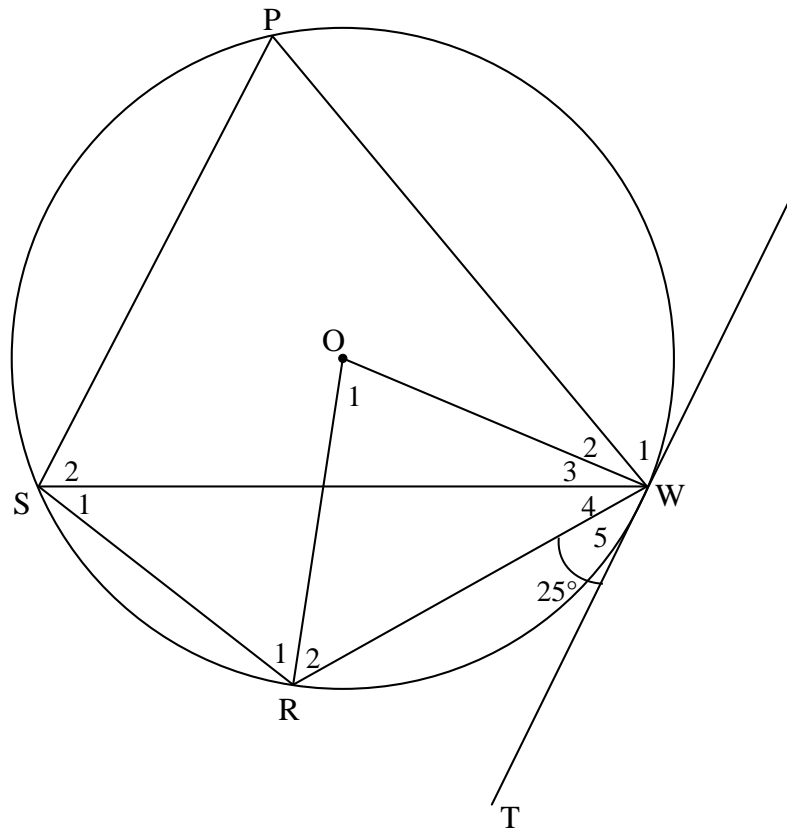
8.1



| | Solution/Isisombululo | Marks/ Amanqaku |
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| | | |
| | | (6) |



8.2



| | Solution/Isisombululo o | Marks/ Amanqaku |
|----------|--------------------------------|----------------------------|
| 8.2.1(a) | | (2) |
| | | |
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| | | |
| 8.2.1(b) | | (2) |
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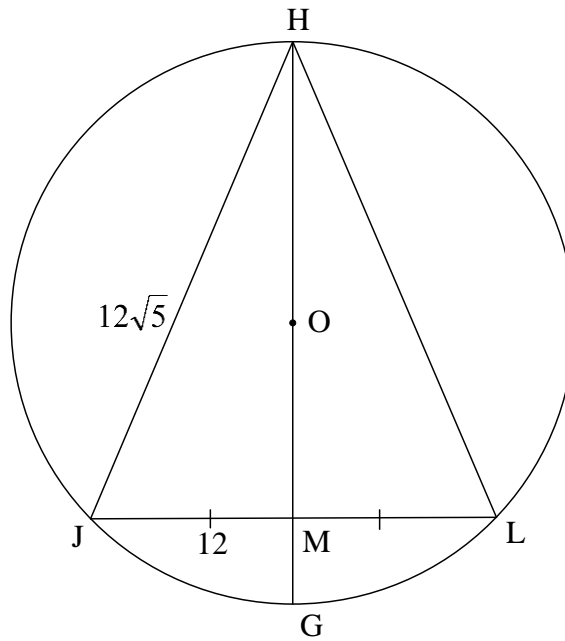
| | Solution/<i>Isisombululo</i> | Marks/ <i>Amanqaku</i> |
|----------|-------------------------------------|-----------------------------------|
| 8.2.1(c) | | |
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| 8.2.2 | | |
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(5)

(3)



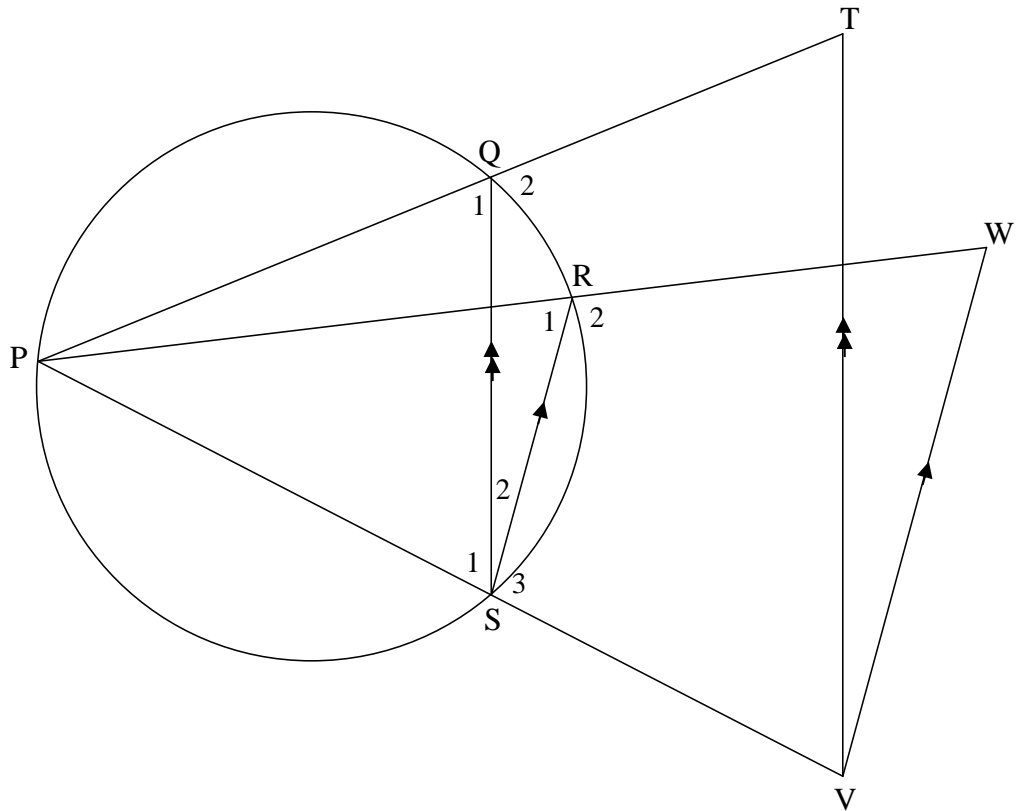
8.3



| | Solution/Isisombululo | Marks/ Amanqaku |
|-------|------------------------------|----------------------------|
| 8.3.1 | | (2) |
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| 8.3.2 | | (5) |
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| | [25] | |



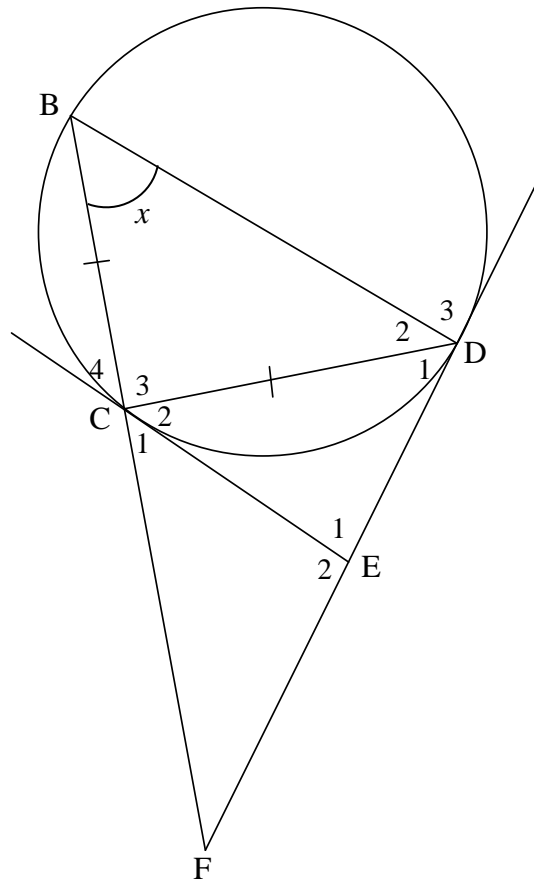
QUESTION/UMBUZO 9



| | Solution/Isisombululo | Marks/ Amanqaku |
|-----|------------------------------|----------------------------|
| 9.1 | | (3) |
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| 9.2 | | (5) |
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| | | [8] |



QUESTION/UMBUZO 10



| | Solution/Isisombululo | Marks/ Amanqaku |
|--------|------------------------------|----------------------------|
| 10.1.1 | | (5) |
| | | |
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| 10.1.2 | | (3) |
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| | Solution/Isisombululo | Marks/ Amanqaku |
|--------|------------------------------|----------------------------|
| 10.2.1 | | |
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| 10.2.2 | | |
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| | (3) | |
| | (6) | |
| | [17] | |



| | Additional space/<i>Isithuba Esongezelelweyo</i> | Marks/<i>Amanqaku</i> |
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| RE-MARK/RE-CHECK <i>UJONGISISO LONIKO-MANQAKU</i> | | | | |
|---|---------------------------------|--|--|--------------------------------------|
| Question <i>Umbuzo</i> | Marks <i>Amanqaku</i> | | | Initials <i>Inishiyali</i> |
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