

**GAUTENG DEPARTMENT OF EDUCATION**

**EXEMPLAR**

**TERM 3 2021**

**GRADE 9**

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| --- |
|  |
| **MATHEMATICS** |
|  |

**MARKING GUIDELINES**

|  |  |
| --- | --- |
|  |  |
| **6 pages** |  |

**QUESTION / *VRAAG* 1**

|  |  |
| --- | --- |
| 1.1 | D**✓** |
| 1.2 | C**✓** |
| 1.3 | B**✓** |
| 1.4 | C**✓** |
| 1.5 | B**✓** |

[5]

**QUESTION / *VRAAG* 2**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2.1 | |  | | --- | | ANSWER | | 1. C**✓** | | 2. A**✓** | | 3. B**✓** |   (3) | |
| 2.2.1 | **=**  **= 27 + 6**  **= 33✓**    **=**    **=**    **= ✓** | Answer / *Antwoord:* 1 mark / *1 punt*  Answer / *Antwoord:* 1 mark / *1 punt* |
| 2.2.2 | 2 =      -2 + 1 =  - 1 = | Answer / *Antwoord* 1 mark /*1 punt*  Answer / *Antwoord* 1 mark /*1 punt* |
| 2.2.3 |  | 1 mark each term /*1 punt elk* |
|  |  | [9] |

**QUESTION / *VRAAG* 3**

|  |  |  |
| --- | --- | --- |
| 3.1.1 |  | :1 mark / *1 punt*  :1 mark / *1 punt* |
| 3.2.1 | a = -7    **b = -1** | 1 mark / *1 punt*  :1 mark / *1 punt*  :1 mark / *1 punt* |
| 3.2.2 |  | Straight line graph :1 mark / *1 punt*  Slope: :1 mark / *1 punt*  x intercept :1 mark / *1 punt*  y intercept :1 mark / *1 punt* |
|  |  | [9] |

**QUESTION / *VRAAG* 4**

|  |  |  |
| --- | --- | --- |
| 4.1.1 | . | ✓  ✓ |
| 4.1.2 |  | :1 mark / *1 punt*  :1 mark / *1 punt* |
| 4.1.3 |  | |
| 4.1.4 | (shown on grid) | |
|  | [9] | |

**QUESTION / *VRAAG* 5**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.1 | |  |  |  | | --- | --- | --- | |  | Statement | Reason | | 5.1.1 |  | Corresponding angles LM//SN**✓** | | 5.1.2 |  | Alternate angles KL//NM**✓** | | 5.1.3 |  | Alternate angles KL//NM**✓** | | 1 mark for reasoning / *1 punt* *vir redenasie*  1 mark for reasoning / *1 punt* *vir redenasie*  1 mark for reasoning / *1 punt* *vir redenasie* |
| 5.2.1 | 2𝑥+15°=5𝑥−15°**✓** alt ∠𝑠, AS//DC **✓**  15°+15°=5𝑥−2𝑥  30°=3𝑥  𝑥=10° **✓** | 1 mark for statement  1 mark for reason  1 mark for answer / *1 punt* *vir antwoord* |
| 5.2.3 | Method 1:  = 35°+90°  =125° **✓**  +=180° co-int ∠𝑠, AS//DC **✓**  = 180°−125°  =55° **✓**  **Or**  +=180° sum of interior angles of triangle **✓**  +=180°  **=** 180° - 20**✓**  = =55°**✓** | 1 mark for 125°  1 mark for statement + reason  1 mark for answer / *1 punt* *vir antwoord* |
|  |  | [9] |

**QUESTION / *VRAAG* 6**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6.1.1 | |  |  | | --- | --- | | STATEMENT | TRUE OR FALSE | | 1. If ABCD is a parallelogram, then sum of the angles ***x* *, y*** and ***z*** is 1800. | True **✓** | | 1. If ABCD is a rhombus, where = 1300, then the value of ***x*** is 250. | True **✓** | | 1. If ABCD is a rhombus, the value of *w* is 1800. | False **✓** | | 1. If ABCD is a parallelogram, where x + y = 1300, then the value of ***z*** is 500. | True **✓** | |  |
| 6.2.1 | Parallelogram **✓** | 1 mark for answer / *1 punt*  *vir antwoord* |
| 6.2.2 | 1800 – ( 700 + 320 ) (The total sum of the interior angle of a triangle = ) **✓**  **✓**  = (opposites angles of a parallelogram are equal) **✓** | ✓  ✓  ✓ =  ✓ (opposites angles of a parallelogram are equal) |
|  |  | [9] |

|  |  |  |
| --- | --- | --- |
|  | **TOTAL / *TOTAAL*** | **50** |