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|  |
| **NATIONAL**  **SENIOR CERTIFICATE/**  ***NASIONALE***  ***SENIOR SERTIFIKAAT*** | |

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| **NOVEMBER 2019** | | | | | |
|  | | | | | |
|  | | | **GRADE 10/*GRAAD* 10** | |  |
|  | | | | | |
| **MATHEMATICS P1/*WISKUNDE V1***  **MARKING GUIDELINE/*NASIENRIGLYN***  **EXEMPLAR/*EKSEMPLAAR*** | | | | | |
|  | | | | | |
| **MARKS/PUNTE:** | **100** | | | | |
|  |  | | | | |
|  | | | | | |
|  | | This marking guideline consists of 8 pages./  *Hierdie nasienriglyn bestaan uit 8 bladsye*. | |  | |

**QUESTION 1/*VRAAG 1***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.1 | 1.1.1 |  |  | (1) |
|  |  |  |  |  |
|  | 1.1.2 |  | **Answer only: Full marks**  **Slegs antwoord: Volpunte** | (2) |
|  |  |  |  |  |
| 1.2 | 1.2.1 |  |  | (2) |
|  |  |  |  |  |
|  | 1.2.2 |  |  | (2) |
|  |  |  |  |  |
| 1.3 | 1.3.1 |  |  | (2) |
|  |  |  |  |  |
|  | 1.3.2 |  |  | (2) |
|  |  |  |  | **[11]** |

**QUESTION 2/*VRAAG 2***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 2.1 | 2.1.1 | or |  | (2) |
|  |  |  |  |  |
|  | 2.1.2 |  |  | (4) |
|  |  | |  |  |
| 2.2 |  | |  | (3) |
|  |  | |  |  |
| 2.3 | ………….(1)  ……….(2)  From (1)…..            **OR**  From (1)…..            **OR**  ……….(3)  (3) – (2)        **OR**  ……….(3)  (2) – (3) | |  | (5) |

|  |  |  |  |
| --- | --- | --- | --- |
| 2.4 | Son/Seun Sipho  Now/Tans  In 25 years  Equation:  Oor 25jaar  vergelyking        His son is 5 years old/*Sy seun is 5 jaar oud.* | His son is 5 years old/Sy seun is 5 jaar oud | (5) |
|  |  |  | **[19]** |

**QUESTION 3/*VRAAG 3***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.1 | 3.1.1 | 11 and/en14 | for both 11 and 14 | (1) |
|  |  |  |  |  |
|  | 3.1.2 |  |  | (2) |
|  |  |  |  |  |
|  | 3.1.3 |  |  | (2) |
|  |  |  |  |  |
|  | 3.1.4 |  |  | (2) |
|  |  |  |  |  |
|  | 3.1.5 |  |  | (3) |
|  |  | |  |  |
| 3.2 |  | |  | (4) |
|  |  | |  | **[14]** |

**QUESTION 4/*VRAAG 4***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 4.1 | Amount/*Bedrag* = 18, 18 x 3569 = R64 884, 42 | | R64 884, 42 | (1) |
|  |  | |  |  |
| 4.2 | 4.2.1 | Loan/*Lening* = 0, 85 x 379 000 = R322 150  **OR/OF**  Loan/*Lening* = 379 000 – 0,15 x 379 000  = R322 150 | 0, 85 x 379 000  R322 150  **OR/OF**  379 000 – 0,15 x 379 000  R322 150 | (2)  (2) |
|  |  |  |  |  |
|  | 4.2.2 |  |  | (3) |
|  |  |  |  |  |
|  | 4.2.3 | Instalment/*Paaiement* | 48 | (2) |
|  |  |  |  |  |
| 4.3 |  |  |  | (3) |
|  |  | |  | **[11]** |

**QUESTION 5/*VRAAG 5***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5.1 | 5.1.1 |  |  | (1) |
|  |  |  |  |  |
|  | 5.1.2 |  | f: x – intercept/afsnit  y – intercept/afsnit  g: asymptote/asimptoot  origin  shape/vorm and intersection | (5) |
|  |  |  |  |  |
|  | 5.1.3 |  | 2 3 |  |
|  |  |  |  |  |
|  | 5.1.4 |  |  | (4) |
|  |  |  |  |  |
| 5.2 | 5.2.1 |  | 1 | (1) |
|  |  |  |  |  |
|  | 5.2.2 |  |  | (1) |
|  |  |  |  |  |
|  | 5.2.3 |  | 6 | (2) |
|  |  |  |  |  |
|  | 5.2.4 |  |  | (2) |
|  |  |  |  | **[11]** |

**QUESTION 6/*VRAAG 6***

|  |  |  |  |
| --- | --- | --- | --- |
| 6.1 | *f*:          *g*: |  | (5) |
|  |  |  |  |
| 6.2 | FG = 12 units/eenhede | FG = 12 units/eenhede | (3) |
|  |  |  |  |
| 6.3 | **OR/OF** |  | (2)  (2) |
|  |  |  |  |
| 6.4 |  | and/en | (2) |
|  |  |  | **[12]** |

**QUESTION 7/*VRAAG 7***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7.1 | 7.1.1 | or/of 0,29 | | or/of 0, 29 | (2) |
|  |  |  | |  |  |
|  | 7.1.2 | or/of 0,43 | | or/of 0, 43 | (2) |
|  |  |  | |  |  |
|  | 7.1.3 | or/of 0,57 | | or/of 0, 57 | (1) |
|  |  |  | |  |  |
| 7.2 | 7.2.1 | 2  3  9  16  Class/Klas = 30  R  S | | 2  3  9  16 | (4) |
|  |  |  | |  |  |
|  | 7.2.2 |  | |  | (2) |
|  |  |  | |  |  |
|  | 7.2.3 | (a) |  |  | (2) |
|  |  | (b) |  |  | (2) |
|  |  |  | |  | **[15]** |
|  |  |  | |  |  |
| **TOTAL/*TOTAAL*:** | | | | | **100** |