

## GAUTENG DEPARTEMENT VAN ONDERWYS

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| --- | --- | --- |
| **Memorandum** | | |
| **VAK** | **:** | **WISKUNDE** |
| **GRAAD** | **:** | **9** |
| **TAAK** | **:** | **Kwartaal 3 Toets** |
| **PUNTE** | **:** | **50** |
| **TYD** | **:** | **1 Uur** |

**Vraag 1 [Meervoudige keuse vrae]**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | | D**🗸** | B**🗸** | C**🗸** | B**🗸** | D**🗸** | | **[5]** |

**Vraag 2**

|  |  |  |
| --- | --- | --- |
| 2.1 | 1 punt vir elke korrekte uitset waarde. | (3) |
| 2.2 | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | 🗸A | |  |  |  |  |  |  | 🗸A |   1 punt vir al die korrekte waardes  1 punt vir al die korrekte waardes | (2) |
| 2.3 | 1 punt vir die korrekte waarde van k  1 punt vir die korrekte waarde van m | (2) |
| **[7]** | | |

**Vraag 3**

|  |  |  |  |
| --- | --- | --- | --- |
| 3.1 | Chart, line chart  Description automatically generated | |  |
|  | 3.1.1 | 1 punt vir die korrekte vorm  1 punt vir die korrekte y-afsnit ()  1 punt vir die korrekte x-afsnit (tussen 1 en 2) | (3) |
|  | 3.1.2 | 1 punt as ten minste 4 punte korrek gestippel is  1 punt as die punte verbind is om ‘n kurwe te vorm. (Pas toe VA) | (2) |
| 3.2 | **3.1.1** | | (1) |
| 3.3 | Die minimum waarde is | | (1) |
| 3.4 | 2 punte vir  2 punte vir | | (4) |
| **[11]** | | | |

**Vraag 4**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4.1.1 | Refleksie | (1) |
|  | 4.1.2 | Translasie | (1) |
| 4.2 | |  |  | | --- | --- | | **Oorspronklike Beeld Hoekpunt** | **Gereflekteerde Beeld Hoekpunt** | |  |  | |  |  | |  |  |   1 punt vir elke korrekte antwoord | | (3) |
| **[5]** | | | |

**Question 5**

|  |  |  |  |
| --- | --- | --- | --- |
| 5.1 | of of  1 punt vir enige van die bostaande antwoorde | | (1) |
|  | 5.2.1. | Die lyne **is parallel** want die **ooreenkomstige hoeke is gelyk** | (2) |
|  | 5.2.2 | Die lyne **is nie parallel** want die **som van die** **ko-binnehoeke is nie 180.** | (2) |
|  | 5.2.3 | Die lyne **is parallel** want die **verwisselende hoeke is gelyk** | (2) |
| 5.3 | Gegee: en EC halveer  Shape  Description automatically generated  Bewys dat .   |  |  | | --- | --- | | **Bewering** | **Rede** | |  |  | |  |  | | But: | Gegee: EC halveer | |  | Bewys hierbo | | | (5) |
| **[12]** | | | |

**Vraag 6**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 6.1.1 |  | (1) |
|  | 6.1.2 | **Vierkant**  **Ruit**. | (2) |
| 6.2 | As en dan is vierhoek ‘n **Parallelogram**, want **beide die oorstaande hoeke is gelyk** | | (2) |
|  |  | |  |
| 6.3 | is ‘n Trapesium, en .  Shape  Description automatically generated | |  |
|  | 6.3.1 | |  |  | | --- | --- | | **Bewering** | **Rede** | |  |  | | (3) |
|  | 6.3.2 | |  |  | | --- | --- | | **Bewering** | **Rede** | |  | Gegee ABCD is ‘n Trapsium | | (2) |
| **[10]** | | | |