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**ERRATUM**

**TO: ALL PRINCIPALS OF SCHOOLS IN THE FET BAND AND DISTRICT HEADS OF EXAMINATIONS**

**FROM: MRS P. JAPHTA**  
**(a) CES: ASSESSMENTS INSTRUMENT DEVELOPMENT AND ITEM BANK MANAGEMENT SUBDIRECTORATE**

**SUBJECT: MATHEMATICS P1 GR11 EXAMINATIONS ERRATUM**

**DATE: 20 NOVEMBER 2023**

The Mathematics P1 Grade 11 for the November Examinations 2023 was written on Friday, the 10 November 2023. We were made aware of errors and omissions that was discovered during the marking process.

The amendment with regards to the marking was prepared in conjunction with the examiner and the moderator of the paper. This amendment addresses the errors and omissions and also ensures that learners are not disadvantaged. The following standardised approach to marking must be adopted across the Province.

2.2.2	For trial and error method (award 3/5)	
5.3	$f(x) = \frac{a}{x+p} + q$ $= \frac{-2}{x+3} - 1$ $y = \frac{-2}{0+3} - 1$ $= -\frac{5}{3}$ <div style="display: flex; align-items: center; margin-left: 20px;"> <span style="color: red; font-size: 2em; margin-right: 5px;">←</span> <div style="border: 1px solid black; padding: 2px 5px; color: red; font-weight: bold;">typo</div> </div>	<p>✓ substituting <math>x = 0</math></p> <p><i>vervang <math>x = 0</math></i></p> <p>✓ answer / <i>antwoord</i></p> <p style="text-align: right;">(2)</p>





7.6	$g(x) = x + 5$ $0 = x + 5$ $\therefore x = -5$ <div style="text-align: right; margin-right: 20px;"><span style="border: 1px solid black; padding: 2px;">typo</span></div> $S(-5; 0)$ $f(x) = -x^2 + x + 6$ $0 = -x^2 + x + 6$ $x^2 - x - 6 = 0$ $(x - 3)(x + 2) = 0$ $\therefore x = -2 \text{ or / of } x = 3$ $\therefore U(3; 0)$ $\therefore SU = 3 - (-5)$ <div style="text-align: right; margin-right: 20px;"><span style="border: 1px solid black; padding: 2px;">correction</span></div> $= 8 \text{ units/eenhede}$	<p>✓ substitution / <i>vervanging</i></p> <div style="text-align: right; margin-right: 20px;"><span style="border: 1px solid black; padding: 2px;">correction</span></div> <p>✓ S(-5 ; 0)</p> <p>✓ factors / <i>faktore</i></p> <p>✓ both x-intercepts <i>beide x-afsnitte</i></p> <p>✓ answer / <i>antwoord</i></p> <p style="text-align: right;">(5)</p>
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7.8	$y_V - y_W = f(x) - g(x)$ $= (-x^2 + x + 6) - (x + 5)$ $= -x^2 + x + 6 - x - 5$ $= -x^2 + 1$ <div style="text-align: right; margin-right: 20px;"><span style="border: 1px solid black; padding: 2px;">typo</span></div> <p><math>\therefore</math> Max.length of VW is 1 unit</p>	<p>✓ <math>f(x) - g(x)</math></p> <p>✓ answer / <i>antwoord</i></p> <p>✓ interpretation / <i>interpretasie</i></p> <p style="text-align: right;">(3)</p>
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<p>8.3.1</p>	$A = \left( 23000 \left( 1 + \frac{0,0925}{4} \right)^{12} + 13500 \right) \left( 1 + \frac{0,082}{12} \right)^{24}$ $= R51\,530,18$ <p><b>NOTE</b> ← <span style="border: 1px solid black; padding: 2px;">correction</span></p> <p>[Accept R42 530,18 if R51 530,18 is not shown – candidate already deducted R9 000,00 which is relevant for 8.3.2]</p> <p style="text-align: center;"><b>OR/OF</b></p> $A = \left( 23000 \left( 1 + \frac{0,0925}{4} \right)^{12} + 13500 \right)$ $= R43\,760,23$ $A = R43\,760,23 \left( 1 + \frac{0,082}{12} \right)^{24}$ $= R51\,530,18$	<p>✓ <math>i = \frac{0,0925}{4}</math> &amp; <math>n = 12</math></p> <p>✓ <math>i = \frac{0,082}{12}</math> &amp; <math>n = 24</math></p> <p>✓ <math>\left( 23000 \left( 1 + \frac{0,0925}{4} \right)^{12} + 13500 \right)</math></p> <p>✓ <math>\left( 1 + \frac{0,082}{12} \right)^{24}</math></p> <p>✓ R51530,18 (answer / antwoord)</p> <p style="text-align: right;">(5)</p> <p style="text-align: center;"><b>OR/OF</b></p> <p>✓ <math>i = \frac{0,0925}{4}</math> &amp; <math>n = 12</math></p> <p>✓ <math>i = \frac{0,082}{12}</math> &amp; <math>n = 24</math></p> <p>✓ R43760,23</p> <p>✓ <math>R43\,760,23 \left( 1 + \frac{0,082}{12} \right)^{24}</math></p> <p>✓ R51530,18 (answer / antwoord)</p> <p style="text-align: right;">(5)</p>
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<p>8.3.2</p>	$P = R51\,530,18 - R9\,000,00$ $= R42\,530,18$ <p>← <span style="border: 1px solid black; padding: 2px;">correction</span></p> $A = P(1+i)^n$ $64\,487,24 = 42\,530,18 \left( 1 + \frac{i}{12} \right)^{36}$ $\therefore i = \left( \sqrt[36]{\frac{64\,487,24}{42\,530,18}} - 1 \right) \times 12$ $= 0,13955640672$ <p>rate/koers = 13,96% ← <span style="border: 1px solid black; padding: 2px;">correction</span></p>	<p>✓ <math>P = R42\,530,18</math></p> <p>✓ <math>\frac{i}{12}</math> &amp; <math>n = 36</math></p> <p>✓ substituting into correct formula vervang in korrekte formule</p> <p>✓ answer / antwoord</p> <p style="text-align: right;">(4)</p>
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We request that this must be brought to the attention of all educators marking these papers and sincerely apologise for the inconvenience.

Yours in education.



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**MRS P.E. JAPHTHA**  
**(a) CES: ASSESSMENTS INSTRUMENT DEVELOPMENT**  
**AND ITEM BANK MANAGEMENT SUBDIRECTORATE**

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20 November 2023  
**DATE**

