Province of the
EASTERN CAPE
EDUCATION

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NOTIFICATION

TO: **ALL PRINCIPALS OF TECHNICAL 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: **TECHNICAL MATHEMATICS PAPER 1 JUNE EXAMS ERRATA**

DATE: **05 JUNE 2023**

The Technical Mathematics P1 Grade 12 for June Examinations 2023 was written on Friday, the 02 June 2023. We were made aware of errors and omissions that was discovered in the marking guidelines.

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.

ERRATA

QUES	ERROR	RECOMMENDATION	CODE DESCRIPTORS
1.1.2	$2x^2+13=5x$ $2x^2-15x+3=0$ $x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$ $x=\frac{-(-15)\pm\sqrt{(-15)^2-4(2)(3)}}{2(2)}$ $x=7,29$ or $x=0,21$	$2x^2+13=5x$ $2x^2-5x+13=0$ $x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$ $x=\frac{-(-5)\pm\sqrt{(-5)^2-4(2)(13)}}{2(2)}$ $x=$ imaginary or non – real	✓ Standard form *standaardvorm* **A** ✓ Formula / *Formule* **A** ✓ Substitution / *Vervanging* **CA** ✓ Imaginary or non-real *Denkbeeldig of nie-reëel* **CA**

QUES	ERROR	RECOMMENDATION	CODE DESCRIPTORS
3.1.3	$\frac{1}{2}\log_2 16+\log_3 27$ $=\frac{1}{2}\log_2 2^4+\log_3 3^3$ $=\frac{4}{2}\log_2 2+3\log_3 3$ $=2\times1+3\times1$ $=2$	$\frac{1}{2}\log_2 16+\log_3 27$ $=\frac{1}{2}\log_2 2^4+\log_3 3^3$ $=\frac{4}{2}\log_2 2+3\log_3 3$ $=2\times1+3\times1$ $=5$	✓ Log property/*eienskap* **A** ✓ Log property/*eienskap* **A** ✓ Simplification / *vereenvoudiging* **CA**
4.3.3	$x\in\mathbb{R}, x\neq 4$	$y\in\mathbb{R}, y\neq 2$	✓ $y\in\mathbb{R}, y\neq 2$ **CA**
5.2	$A = P(1+i)^n$ $75\,000 = 5\,000(1+9,5)^n$ $\frac{75\,000}{5\,000} = (1+9,5)^n$ $15 = (1,95)^n$ $\log_{1,95}15 = n$ $4,0550 = n$	$A = P(1+i)^n$ $75\,000 = 5\,000(1+9,5\%)^n$ $\frac{75\,000}{5\,000} = (1+9,5\%)^n$ $15 = (1,095)^n$ $\log_{1,095}15 = n$ $29,83 = n$	✓ F **CA** ✓ SF **CA** ✓ Simplification / *vereenvoudiging* **CA** ✓ log form/*vorm* **CA** ✓ $n = 29,83$ **CA**
6.2.1	$y=\frac{2}{x^3}-15x+7m$ $=2x^{-3}-15x+7m$ $\frac{dy}{dx}=-6x^{-2}-15$	$y=\frac{2}{x^3}-15x+7m$ $=2x^{-3}-15x+7m$ $\frac{dy}{dx}=-6x^{-4}-15$	✓ $2x^{-3}$ **A** ✓ $-6x^{-4}$ **CA** ✓ -15 **CA**

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.

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

05 June 2023
DATE