



#### CHIEF DIRECTORATE: EXAMINATIONS AND ASSESSMENT

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### ERRATUM

TO: CHIEF EDUCATION SPECIALISTS DISTRICT CURRICULUM COORDINATORS DISTRICT ASSESSMENT OFFICIALS (DAOS DISTRICT SUBJECT ADVISORS (DSAS) PROVINCIAL SUBJECT COORDINATORS CIRCUIT MANAGERS DEPUTY CHIEF EDUCATION SPECIALISTS SENIOR EDUCATION SPECIALISTS PRINCIPALS OF SCHOOLS IN THE FET BAND

## SUBJECT: ERRATUM – MATHEMATICS P2 GRADE 12 JUNE 2025

## DATE: 13 JUNE 2025

The Mathematics P2 Grade 12 June Examination was written on Monday, 9 June 2025. We were made aware of certain amendments and omissions that were discovered during the marking process and memorandum discussion on the provided marking guideline.

To address this and to ensure that learners are not disadvantaged, the following standardised approach to marking must be adopted across the Province. The following guidelines regarding marking was prepared in conjunction with the examiner and moderator.

#### Amendments and corrections to Marking Guideline.

In this paper there are sub-questions which were found faulty from the question paper during memo discussion. We agreed that the questions affected be marked in the following way:

- 4.2 will be marked out of 4 instead of 6 marks
- 8.4 must not be marked at all in ENGLISH VERSION.
- 9.3 must be marked out of 2 instead of 4

Note: Please use conversion tables for Question 4, 8 and 9. Conversion tables have been included for affected questions. This paper will be marked out of 150 marks



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1.7	Position = $\frac{75}{100} \times 50 = 37,5$ 75th percentile = 48 OR Reading from the graph acceptable	<ul><li>✓ position</li><li>✓ answer</li></ul>	(2)
1.8	IQR = 48 - 32	$\checkmark Q_3 - Q_1$	(2)
	= 26	✓ answer	
1.9	Also accept 12 as number of motorists greater or equal to 75 <sup>th</sup> percentile	✓ 12	(2)
	Total reward for motorists at 75 <sup>th</sup> or above $= 288$	✓ 288	

2.1	$m_{RV} = \frac{a - 12 - 4}{a + 2 + 6}$ $= \frac{a - 16}{a + 8}$ Accept gradient of RV in terms of a	<ul> <li>✓ substitution into correct formula</li> <li>✓ answer</li> </ul>	(2)
2.6	$\tan\theta = \boldsymbol{m}_{SU} = 2$	$\checkmark \tan \theta = \boldsymbol{m}_{SU}$	
	$\theta = 63,44^{\circ}$	$\checkmark \theta = 63,44^{\circ}$	
	$\tan \alpha = \boldsymbol{m}_{RV} = -\frac{1}{3}$	$\sqrt{\tan \alpha} = m_{RV}$	
	$\alpha = 161,57^{\circ}$	$\sim \alpha = 101, 57$	
	:. $TUV = 161,57^{\circ} - 63,44^{\circ} \text{ [ext. } \angle \text{ of a } \Delta \text{]}$ = 98,13°	✓ answer	
	No penalty for rounding off.		
			(5)

2.7	$TV = 4 \times 2\sqrt{10}$		
	$=8\sqrt{10}$	$\checkmark$ TV = 8 $\sqrt{10}$	
	$UT = \sqrt{(-12+6)^2 + (-8-4)^2}$		
	$=6\sqrt{5}$	$\checkmark$ UT = $6\sqrt{5}$	
	Area of $\Delta TUV = \frac{1}{2} \times 8\sqrt{10} \times 6\sqrt{5} \times \sin 98,13^{\circ}$	✓ correct substitution	
	=168	√answer	(4)

# OR



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	Alternative solution if pupils worked out the length of TV		
	$TV = 3 \times 2\sqrt{10}$	$\checkmark$ TV = $6\sqrt{10}$	
	$= 6\sqrt{10}$ UT = $\sqrt{(-12+6)^2 + (-8-4)^2}$	$\checkmark$ UT = $6\sqrt{5}$	
	$= 6\sqrt{5}$	✓ correct substitution	
	Area of $\Delta 10V = - \times 6\sqrt{10} \times 6\sqrt{5} \times \sin 98,13^{\circ}$ = 126	√answer	
	If pupil worked out all three sides and worked out a different angle (using the cosine rule) the educators will have to follow what the pupil has		
	done.		(4)
2.4.2			
3.4.3	$m_{BC} = \frac{1}{2}$		
	$\therefore \mathbf{m}_{AB} = -2 \qquad \left[ A \hat{B} C = 90^{\circ} \right]$	$\checkmark m_{AB} = -2$	
	Equation of AB:		
	y = -2x - 2	$\checkmark y = -2x - 2$	
	k = -2(-4) - 2 = 6	$\checkmark k = 6$	(3)





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8.1	$\hat{ABD} = 90^{\circ}$	[tan chord theo]	
	$G_1 = 90^0$	[line from centre to the midpoint]	
	∴ AB    EC	$\left[ \text{co-int} \angle \text{s} \text{ add to } 180^{\circ} \right]$	Co-int angles correct 4enalt not
			corresp angles
8.2	$\hat{\mathbf{B}}_{i} = \hat{E}_{i}$	$\begin{bmatrix} alt \ s \ EG \end{bmatrix} AB$	$\checkmark$ S $\checkmark$ R 4enalty applies if    not
	$\mathbf{D}_1$ $\mathbf{D}_2$		mentioned
	$\hat{B}_1 = \hat{C}$	[tan chord theo]	$\sqrt{S}$ $\sqrt{R}$
	$\therefore \hat{E} = \hat{C}$		
8.4	<b>English version</b>	question paper must not mark 8.4, len	gth of hypotenuse side in $\Delta$ EDG does
	not make sense.	ED is shorter than DG.	







9.3	The first two lines in the memo answers the question that was stated , the last two lines should		should	
	be ignored. 9.3 must be marked	out of 2 marks.		
9.4	$\frac{AC}{AD} = \frac{CF}{AE}$ [line    to or	the side of $a\Delta$ ]	$\checkmark$ S $\checkmark$ R	
	$AD = \frac{AC.AE}{CF}$		$\checkmark AD = \frac{AC.AE}{CF}$	
	$\frac{AC.AE}{CF} = \frac{DF.CB}{BF}$			(3)

# Note: Please use the following conversion tables for Question 4, 8 and 9.

<b>CONVERSION TABLE OF QUESTION 4</b>	
Mark out of 27 marks	Mark out of 29 marks
1	1
2	2
3	3
4	4
5	5
6	6
7	8
8	9
9	10
10	11
11	12
12	13
13	14
14	15
15	16
16	17
17	18
18	19
19	20
20	21
21	23
22	24
23	25
24	26
25	27
26	28
27	29



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CONVERSION TABLE OF QUESTION 8		
Out of 11 marks	Out of 14 marks	
1	1	
2	3	
3	4	
4	5	
5	6	
6	8	
7	9	
8	10	
9	12	
10	13	
11	14	
<b>CONVERSION TABLE OF QUESTION 9</b>		
Mark out of 13	Mark out of 15	
1	1	
2	2	
3	4	
4	5	
5	6	
6	7	
7	8	
8	9	
9	10	
10	12	
11	13	
12	14	
13	15	

We sincerely apologise for any inconvenience we might have caused.

Yours in education.

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MRS P.E. JAPHTA **F** (A) CES: AIDIBM SUBDIRECTORATE

13 June 2025 DATE



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