



**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

## **Marking Guidelines**

### **TERM 3**

**GRADE 9**

**MATHEMATICS**

**MARKS: 50**

**This question paper consists of 10 pages**

## MATHEMATICS

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### INSTRUCTIONS AND INFORMATION

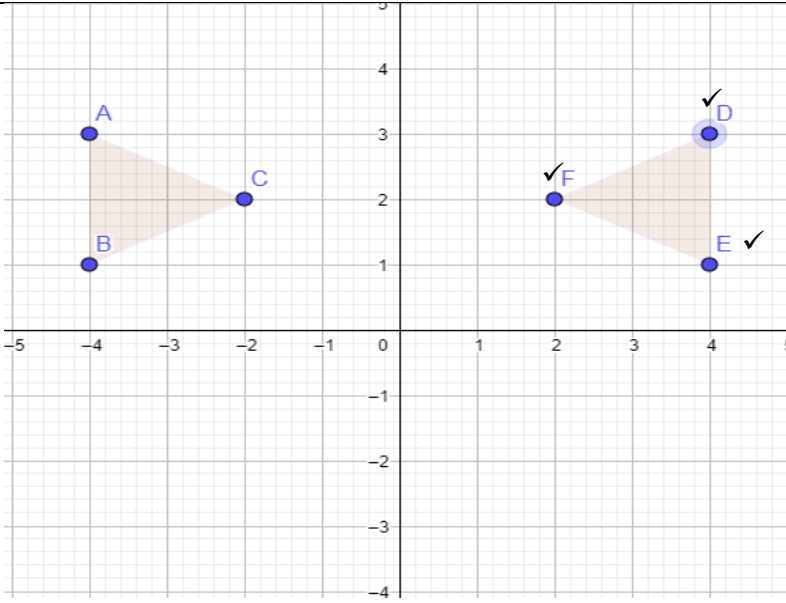
1. Give full marks for answers only, unless stated otherwise.
2. Accept any alternate correct solutions that are not included in the marking guideline.
3. Underline errors committed by learners and apply Consistent Accuracy (CA).

KEYS	
M	Method
CA	Consistent Accuracy
A	Accuracy
S	Statement
SF	Substitution in Formula
R	Reason
S/R	Statement and Reason

This Marking Guideline consist of 8 Pages.

QUESTION 1				
1.1	C	✓		(1)
1.2	B	✓		(1)
1.3	B	✓		(1)
1.4	D	✓		(1)
1.5	D	✓		(1)
				[5]
QUESTION 2				
a.	2	✓		(5)
b.	12	✓		
c.	9	✓		
d.	3	✓		
e.	$\frac{11}{4}$ or 2.75	✓		
				[5]
QUESTION 3				
	3.1.1	For $x - int(y = 0)$ $0 = -2x$ $\frac{0}{-2} = \frac{-2x}{-2}$ $x = 0$ ✓		(2)
	3.1.2	$C = 0$  $\therefore y = 0$ ✓ or for $y - int(x = 0)$ $y = -2(0)$  $y = 0$ ✓		(1)
	3.1.3	$m(\text{gradient}) = -2$ ✓		(1)

	3.1.4. and 3.1.5.		(5)
	3.1.6.	Read off from the drawn graphs $y = -8$ ✓ ✓ <i>or</i> <i>substitute</i> $x = 4$ <i>in</i> $y = -2x$ $y = -2(4)$ ✓ $y = -8$ ✓	(2)
<b>[11]</b>			
QUESTION 4			
4.1			(3)
4.1.1.	Translate 2 units to the left, and 4 units up.	✓	
4.1.2.	(8;3)	✓	
4.1.3.	(-6; -1)	✓	

4.2.1.		(3)
4.2.2.	<p>Write the rule that you used to reflect the object in <b>QUESTION 4.2.1</b> in the form:</p> $(x; y) \rightarrow (-x; y)$	(2)
		[8]
<b>QUESTION 5</b>		
5.1.	$\hat{A}BD = \hat{B}DE \checkmark \quad [alt \angle = ; AB \parallel CD] \checkmark$ $t = 55^\circ \checkmark$ $\hat{C}DA = \hat{B}AD \checkmark \quad [alt \angle = ; AB \parallel CD] \checkmark$ $y = 40^\circ \checkmark$ $\hat{A}DB + \hat{C}DA + \hat{B}DE = 180^\circ \quad \text{sum } \angle \text{ of str line } \checkmark$ $x + 40^\circ + 55^\circ = 180^\circ$ $x + 95^\circ = 180^\circ \checkmark$ $x = 180^\circ - 95^\circ$ $x = 85^\circ \checkmark$	(9)
5.2.	$\hat{A} + \hat{D} = 180^\circ \quad [Co - int \angle \text{ are suppl. } ; AB \parallel DC] \checkmark$ $x + 50^\circ + 2x - 20^\circ = 180^\circ$ $3x + 30^\circ = 180^\circ$ $3x = 180^\circ - 30^\circ$ $3x = 150^\circ$ $\frac{3x}{3} = \frac{150^\circ}{3}$ $x = 50^\circ \checkmark$ $\therefore \hat{D} = 2(50^\circ) - 20^\circ = 100^\circ - 20^\circ = 80^\circ$ $\hat{B} = \hat{D} \quad [opp \angle s \text{ of } \text{Parms are } =] \checkmark$ $\hat{B} = 80^\circ \checkmark$	(4)
		[13]

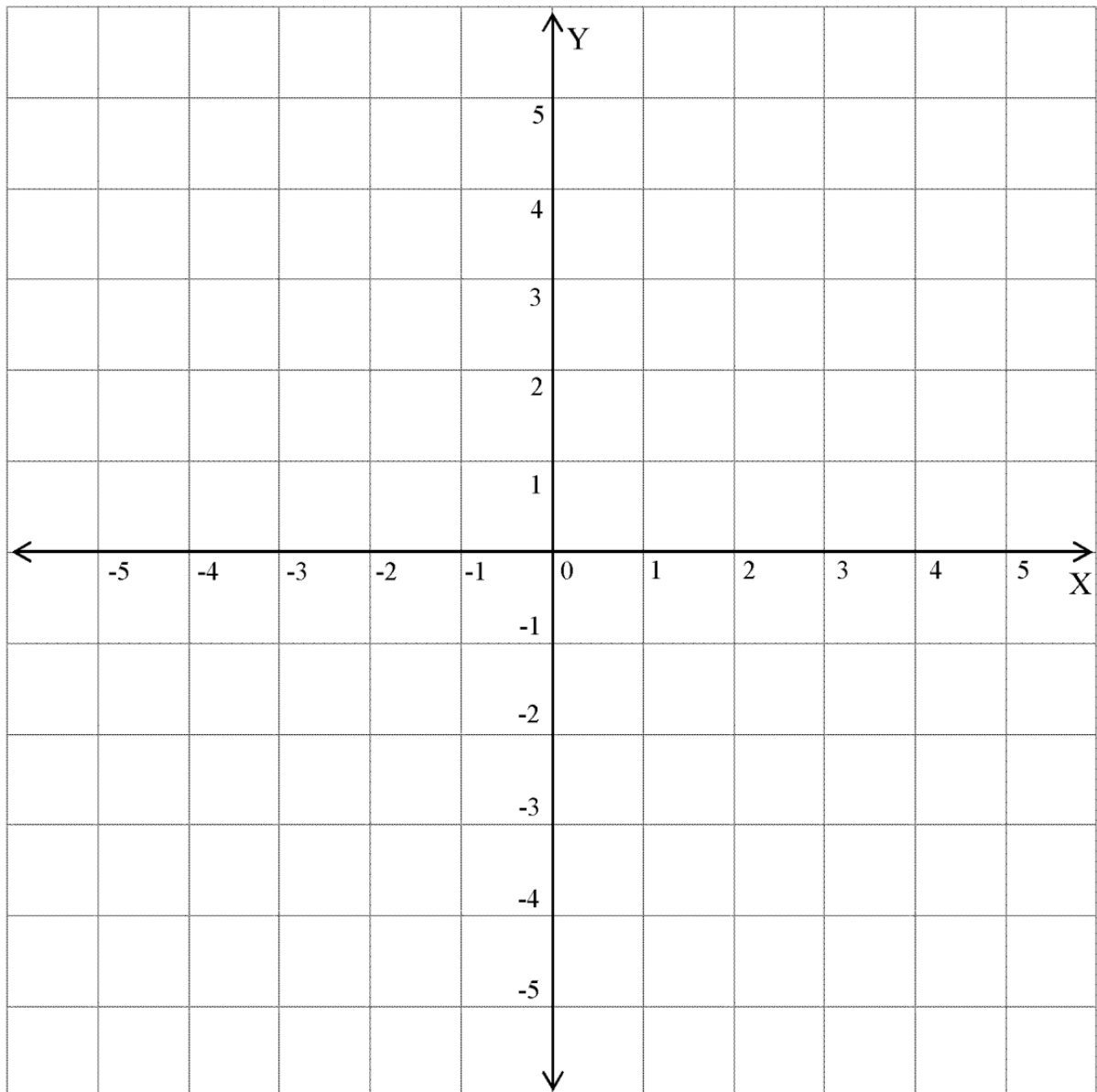
	QUESTION 6			
6.1.	C and iv	✓	✓	
6.2.	D and iii	✓	✓	
6.3.	B and i	✓	✓	
6.4.	A and ii	✓	✓	
				<b>[8]</b>

<b>Total</b>	<b>50 Marks</b>
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#### ANNEXURE 1

SURNAME & NAME..... Grade 9: ...

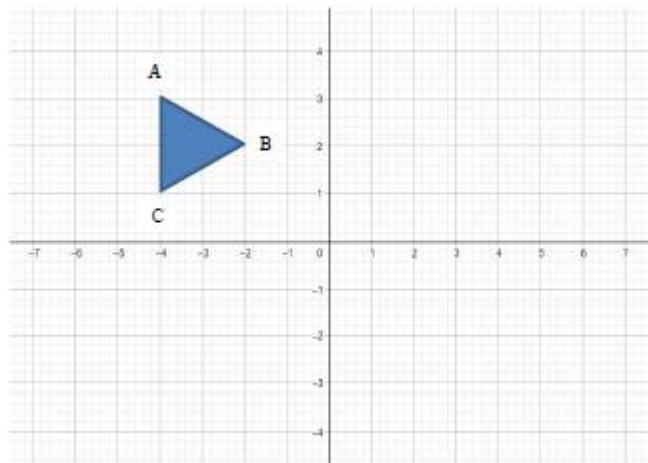
QUESTION 3.1.4. and 3.1.5.




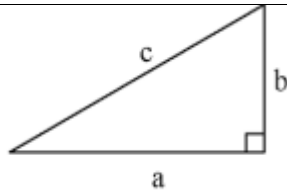
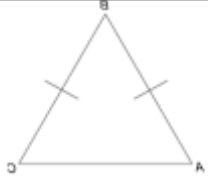
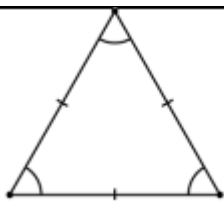
## ANNEXURE 2

SURNAME & NAME..... Grade 9: ...

QUESTION 4.2.1.



### QUESTION 6

Column A	Column B	Column C	Answer
6.1. Equilateral Triangle	(a) 3 sides, with one angle equal to $90^\circ$	(i) 	.....
6.2. Isosceles Triangle	(b). All three sides are different in size.	(ii) 	.....
6.3. Scalene Triangle	(c). A triangle where all three angles are equal to $60^\circ$	(iii) 	.....
6.4. Right Angled Triangle	(d). A triangle where the two base angles are equal	(iv) 	.....