

Marking Scheme
Class X Session 2023-24
MATHEMATICS STANDARD (Code No.041)

TIME: 3 hours

MAX.MARKS: 80

SECTION A		
Section A consists of 20 questions of 1 mark each.		
1.	(b) xy^2	1
2.	(b) 1 zero and the zero is '3'	1
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	1
4.	(c) 2 distinct real roots	1
5.	(c) 7	1
6.	(a) 1:2	1
7.	(d) infinitely many	1
8.	(b) $\frac{ac}{b+c}$	1
9.	(b) 100°	1
10.	(d) 11 cm	1
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$	1
12.	(d) $\cos A$	1
13.	(a) 60°	1
14.	(a) 2 units	1
15.	(a) 10m	1
16.	(b) $\frac{4-\pi}{4}$	1
17.	(b) $\frac{22}{46}$	1
18.	(d) 150	1
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)	1
20.	(c) Assertion (A) is true but reason (R) is false.	1
SECTION B		
Section B consists of 5 questions of 2 marks each.		
21.	Let us assume, to the contrary, that $\sqrt{2}$ is rational. So, we can find integers a and b such that $\sqrt{2} = \frac{a}{b}$ where a and b are coprime. So, $b\sqrt{2} = a$. Squaring both sides, we get $2b^2 = a^2$. Therefore, 2 divides a^2 and so 2 divides a. So, we can write $a = 2c$ for some integer c. Substituting for a, we get $2b^2 = 4c^2$, that is, $b^2 = 2c^2$. This means that 2 divides b^2, and so 2 divides b. Therefore, a and b have at least 2 as a common factor. But this contradicts the fact that a and b have no common factors other than 1. This contradiction has arisen because of our incorrect assumption that $\sqrt{2}$ is rational. So, we conclude that $\sqrt{2}$ is irrational.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

Waec Maths Marking Scheme

**Qualifications and Curriculum
Authority (Great Britain)**



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Palm of the Rainforest Ikénnà Nn?l?,2020-08-28 I know who I am Kelvin seemed desperate to win his father s approval However Mr Eze not only seemed unwilling to bestow it but hell bent in making life unbearable for his acclaimed son Kelvin thought it would be best to find his true family rather than endure the torture of being the unwanted child He realised that his quest for recognition was unlikely to succeed so he set his eyes on freedom In the meantime Kelvin expected that a good academic performance would change his luck and put him right with Mr Eze or at least boost his confidence in his abilities With all his attention on his studies competing for the best grades against the leading brains in his class especially Christian an indomitable rival he would not let school romance get in the way fo his goal But slowly and steadily Chioma gained his trust and won him over He would have to make a decision between holding on to his moral principle or satisfying his human desire for friendship New Home New Identity Marginalised and decimated the Biafran people were forced to go to war and secede from Nigeria But decades after losing the war and embracing the Nigerian identity they are still not treated as equal citizens in their home country As a new wave of terrorism sweeps the northern parts of the country the Biafran people predominantly Igbo are again decimated as they have been for decades in every crises and this led to renewed discussions about their independence For Biafra the fight for equality was over and their Sovereignty was not negotiable For Kelvin it wasn t very different and so his quest for truth and independence must begin His compulsory holiday in Igbo land would expose him to the truth that might have indirectly caused him to abandon his academic pursuit Perhaps it was just an excuse to free himself from the clutch of Mr Eze and begin his quest for the truth about his identity Mathematics Tests ,2012

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