WAKISSHA MARKING GUIDE Uganda Certificate of Education MATHEMATICS 456/1

1.	(x+5+x+2)(x+5-x-2)	m	Factors
	=(2x+7)(3) = 3(2x+7) = 9		C's factors
	2X+7-		
	2x = -4		
	x = -2		
		4	marks
2.	$2 * 1 = 2^2 - 1 - 3$		
	$9 * Z = 9^2 - h = 76$		
	81-z=76		
	z =81-76		
		4	marks
3.	<u>360</u>	ml	Accept of alternative
	Number of sides		
	Sum of interior angle		
	$=(180-18)\times 20$	ml	
	$= 162 \text{ x } 20 = 3240^{\circ}$	1111	
		4	marks
4.	2x+5y=11		Accept of alternative
	3x-y=8		
	2x+5y=11		
	15x - 5y = 40		
	17x=51		
		4	marks

5.	$\begin{pmatrix} 2 \\ -4 \end{pmatrix} + \begin{pmatrix} 9 \\ b \end{pmatrix} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$		
	2 + a = 4 a = 2		Equation
	-4 + b = 5 b = 9		Equation
	(2,9)	ml	
		4	marks

	feelstooks
terminant	

6.	m	t	1	2 2)			<i>m</i> ₁	Determinant
		18	-16	8 9	1			m	a found
			÷	$=\frac{1}{2}$	$\binom{2}{8}$	$\binom{2}{9}$		<i>m</i> ₁	Simplification
				$= \begin{pmatrix} 1 \\ 4 \end{pmatrix}$	4.5	,)		$A_{\rm I}$	
								4	marks
7.	<i>x</i> =	126	63 ⁰					1111	
		2	62					A_1	
	y =	70	05					$m_i \searrow$	C's 63
	-11	/						m_1	
								4	marks
8.	$x = h$ $\frac{1}{2} x^{12h} = 60$ $12 h = 120$ $h = 10 cm$ $Hypotonic = x^{2}$ $x = \sqrt{12^{2} + 10^{2}}$ $= \sqrt{244} = 15.62$							m_1 m_1 m_1 A_1	
0	14.8	2.0.4	15 Vr	+ 16	10			4	marks
9.	28p	2p 2p 2+15p 3p +160	+ p + p + 16 = 15	$\frac{10}{2} = 15$	15)	15			Simplification
	43 p	+160) = 45	p + 15	0			m_1	Second se
	2.p=	=10.		50				10000	Like terms
	<i>p</i> =	5						<i>m</i> ₁	
								A'	marks
10	-					_		4	marks
	+	1	2	3	4	5	6		
	1	2	3	4	5	6	7		
	2	3	4	5	6	7	8		
	3	4	5	6	7	8	9	B_2	
	4	5	6	7	8	9	10		
	5	6	7	8	9	10	11		
	6	7	8	9	10	11	12		

	$\frac{1}{n(E)} = \frac{15}{36} = \frac{15}{12}$	5							
				4		Marks			
		SE	ECTIO	N B					
11.						0	1	2	3
						- 8	-	_	4
							6	2	
		4 0	2	1]	4	2	- 2	- 8
	$x = x^2 + x - 8$	-4 -3 4	-2	-1 - 8					132
	$y = 4 - x - x^2$	- 8	2	4		$y = x^2 + x - 8$ $y = 4 - x - x^2$			
	(b) refer to graph (c) $x_1 = 3$	paper			132	from correct g	raph		
12									

(a) The 4 x 4 is matrix 3) P3 510 1 Qc 00 0 R5 10 1 S4 36 (b) (i) The cost 132 matrix B250,000 M60,000 20,000 NLT70,000 250.0 00 60.0 (ii) 00 5 3 10 3) 20.0 0 0 1 0 00 5 1 0 0 70.0 4 3 6 1. 00 Р 1, 520, 000 Q 90,000 1, 390, 000 ^{1, 520,}00 at He spent 90,000 B_1 P at B_I Q 1,390, B_{I} (c) total spent = 1,525,000 + 90,00 00 at S B_1 = 4,310,000

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000+1,390,000 Ml









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16.	(a) $(c+d)$	6	0	Ml	F actorization
	30(c-d)	60			Substitution
	(c-d) = 2	(1)			
	(c+d) = 30	(1)30	(1)		
	2c = 3	32 32		A_1	
	с	16		M_1	
		16 d		$A_{\rm i}$	
		14 posho			
	(h) let r rice n	posito			
	(<i>b</i>) let i fice, p				
	. 2 10,000				
	= 9,500				
	20,000				
	= 20,000 6r ± 9 n $= 28,500$				
	01 + 9p = 20,300	5/7 =			
	= p = 1,700r	8,500			
	6r + 4 x 1,700≡20,000				
	6r + 6.800 = 20,000				
	6r = 13, 20				
	r = 2.20 1.700r				
	,				
	=	13, 200			
	=	= 2,200			
				12	marks

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17.	(a) The inequalities SOX + 75y 600, 000		
	40, 000X+ 50, 000 600, 000 V 60	131	
	. graph paper 1 5y = 120 line shading 4x + = 60 line shading Y x line and shading Y 7 line and shading	131	
	(c) Minimum at (6, 4)6 trips of truck A4 trips of truck B		
		12	marks

