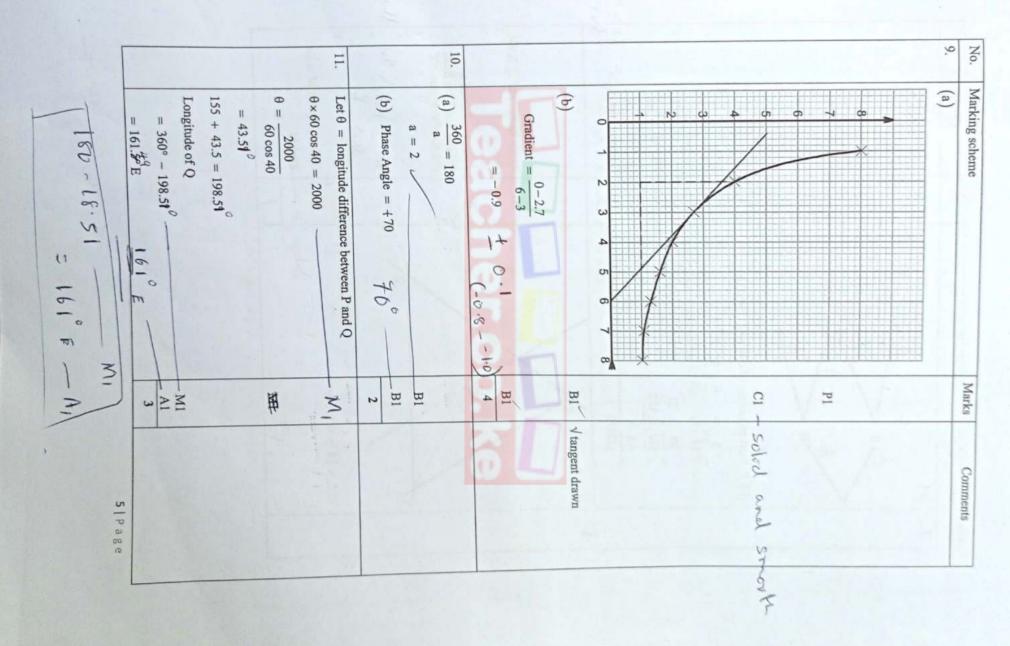
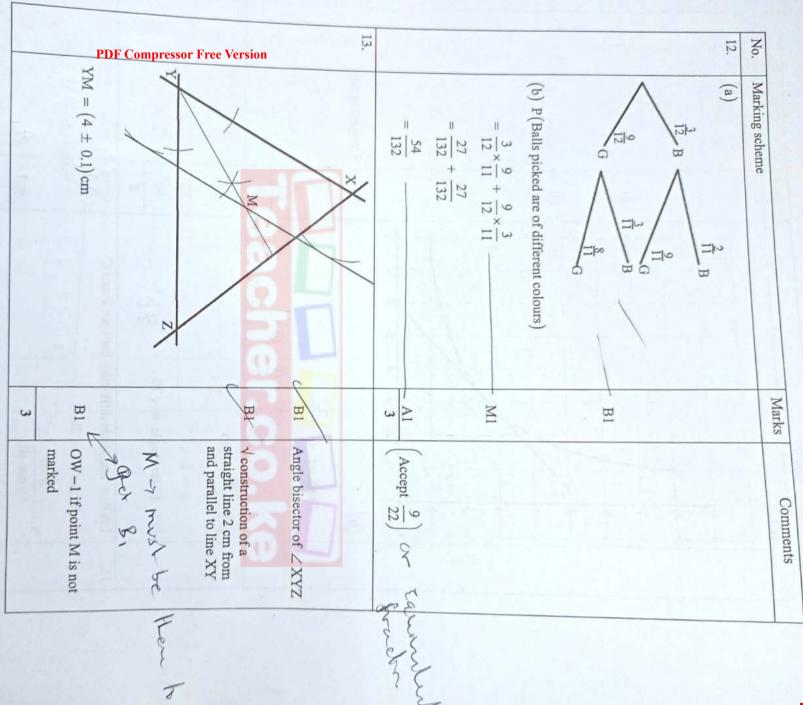


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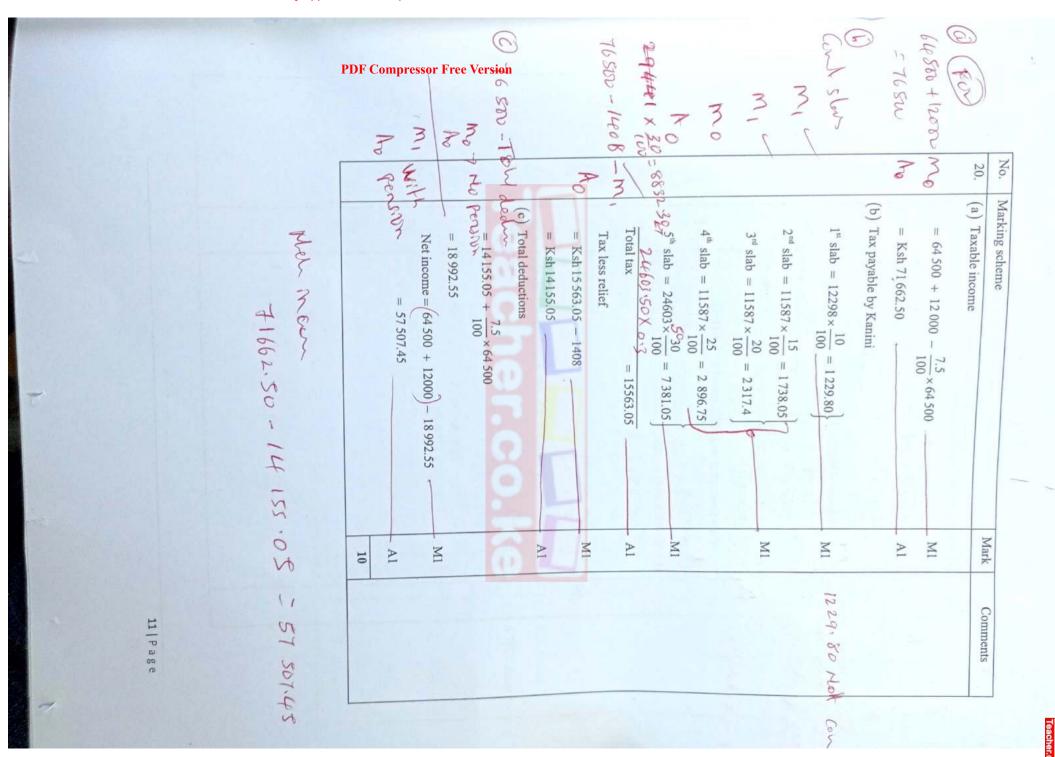


		16.			15			14.
$= 16\frac{2}{3} \text{ sq. units}$	$= \left(\frac{3^{3}}{3} + 9\right) - \left(\frac{1}{3} + 1\right)$ $= 18 - 1\frac{1}{3}$	$\int_{1}^{3} (x^{2} + 2x) = \left[\frac{x^{3}}{3} + x^{2} \right]_{1}^{3}$ Count int	$x = -\frac{2}{3} \text{ or } x = 3$ for both answers.	$3x^{2} - 7(x - 1) = \frac{13x}{x} = 13$ $3x^{2} - 7x - 6 = 0$	Points P, Q and R are collinear B1	$\begin{pmatrix} 6 \\ -3 \\ 3 \end{pmatrix} = k \begin{pmatrix} 2 \\ -1 \end{pmatrix}$ $k = \frac{1}{2} + \frac{3}{2}$	$PQ = \begin{vmatrix} -5 \\ 6 \end{vmatrix} - \begin{vmatrix} -2 \\ 3 \end{vmatrix} = \begin{vmatrix} -3 \\ 3 \end{vmatrix} \dots (i)$ $PR = \begin{vmatrix} 8 \\ -3 \\ 4 \end{vmatrix} - \begin{vmatrix} 6 \\ -2 \\ 3 \end{vmatrix} = \begin{vmatrix} 2 \\ -1 \\ 1 \end{vmatrix} \dots (ii)$ If PQ and PR are parallel, then PQ = kPR	
2 A1	MI	mte frut	Al M	M M	6 B1 B1 3		B1	Marks
C. A. O	Cend subtitue	with limits	ove conclusions substituted.	allow knok	Parallelism The candid		For either (i) and (ii) allow for the Men equivalents.	Comments

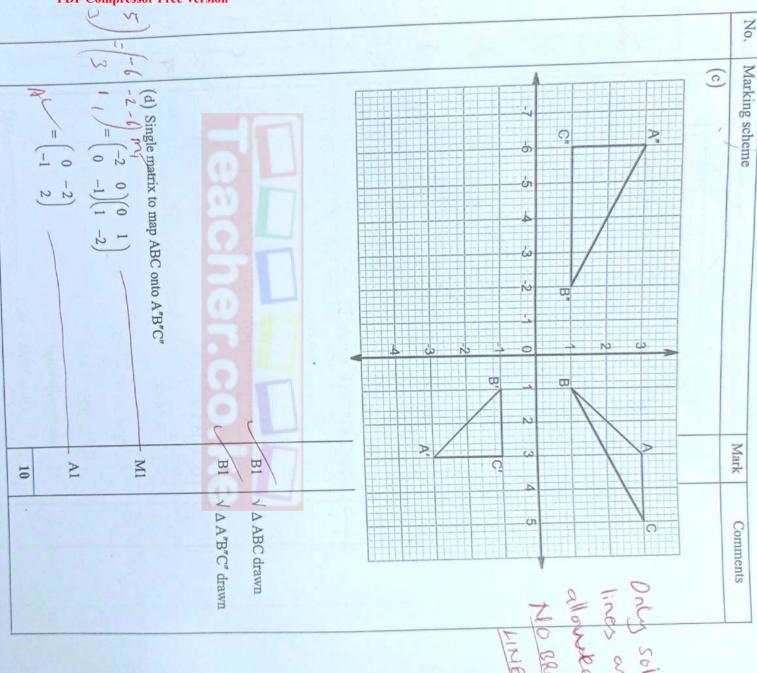
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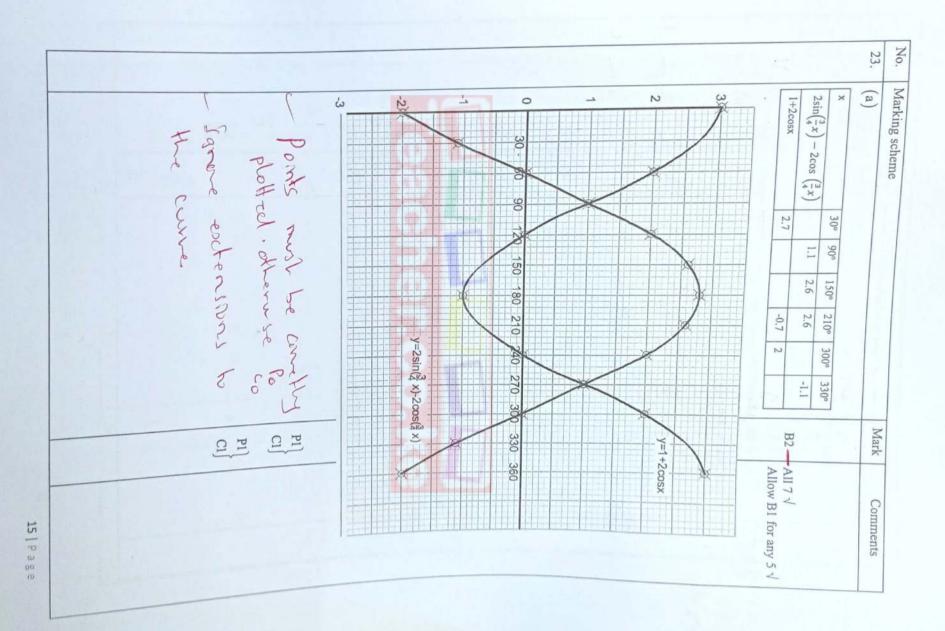
PDF Compressor Free Ve	ersion 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	No
$= 2\frac{5}{2} + 3\frac{1}{3}$ $= 5\frac{5}{6} \text{ hours}$ Fraction of tank delivered by pump P $= \frac{2}{15} \times 5\frac{5}{6}$ $= \frac{7}{9}$ Amount received by propriator of Pump P $= \frac{7}{9} \times 15750$ $= Ksh 12 250$	(c) (b)	o. Marking scheme
AM AM	AI MI MI MI	Mark
		Comments



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Teacherco	Marking scheme (c) (i) When $y=2$ $2\sin\left(\frac{3}{4}x\right) - 2\sin\left(\frac{3}{4}x\right) = 2 \text{ then}$ $\sin\left(\frac{3}{4}x\right) = 1 + \sin\left(\frac{3}{4}x\right)$ $x = 120\% x = 240^{\circ}$ (ii) $90^{\circ} \leftarrow x \leftarrow 270^{\circ}$ $87 \sim 270^{\circ}$ 42°
10	Mark B1 B2 B2
	Comments For buth Allow B1 for one inequality \(\sqrt{273} \) C 2C \(\sqrt{273} \)

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