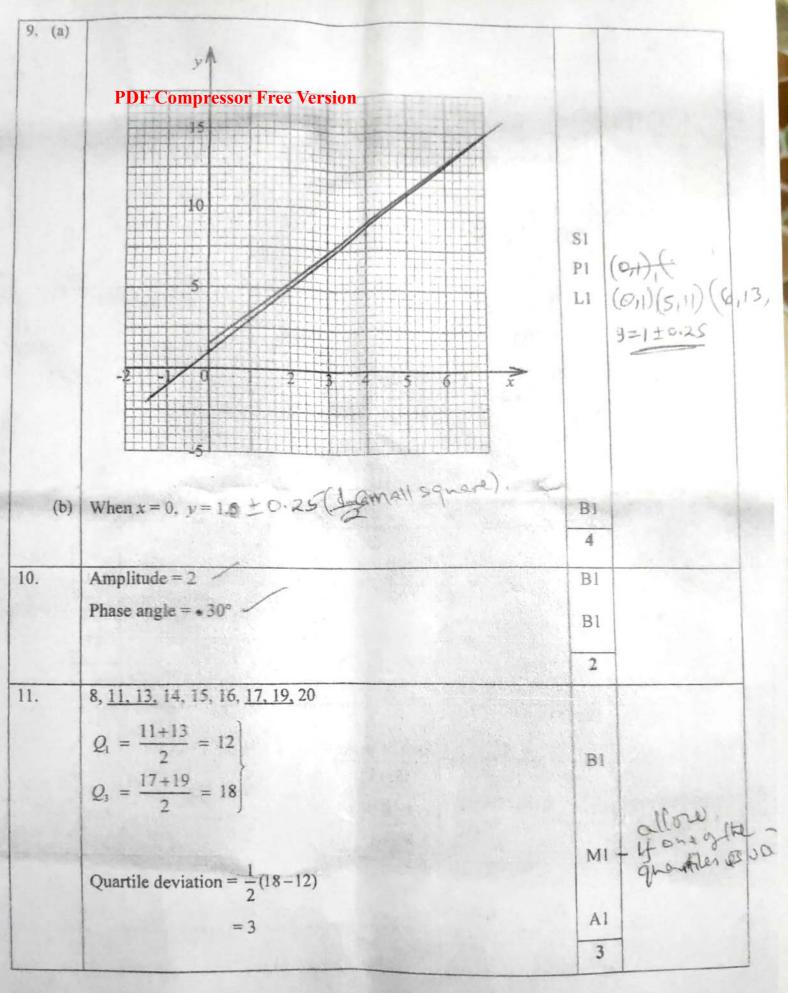
4 logs + 15 higher E 4 PDF Compressor Free Version marks comments $2\log x^2 + \log \sqrt{x} = k\log x$ 1. 4±logx = Klogx Single logs Lits = eits $\log\left(x^{4}x^{\frac{1}{2}}\right) = \log x^{4} -$ ML (plat AL k=41 V 08 4.5 I'm allowed. 2 2. $P \alpha \frac{t^3}{\sqrt{s}}$ $P = \frac{kt^3}{\sqrt{r}}$ $16 = \frac{k(2)^3}{\sqrt{9}}$ M1 $\frac{16\times3}{8} = k$ A1 k=6 +0 $\therefore P = \frac{6t^3}{\sqrt{s}}$ When t = 3 and s = 36 $P = \frac{6 \times 3^3}{\sqrt{26}} = \frac{6 \times 27}{6}$ Anonly if My was eared = 27 V $P_{2} = \frac{170130}{1.07}$ $P_{2} = \frac{170130}{1.07}$ $P_{1} = 159000$ $P_{1} = 15000$ 4 P(1.06)(1.07)=170130 M1 MI P = 170130 m. (1.0b)(1.07) m. MI = 150 000 A7 = Kal 150000 AT 3 $\frac{170130 = 1006p(1+7,0)}{170130 = 1.06p(1.07)} M_{1}$ 121/2 MS 150000 = P.

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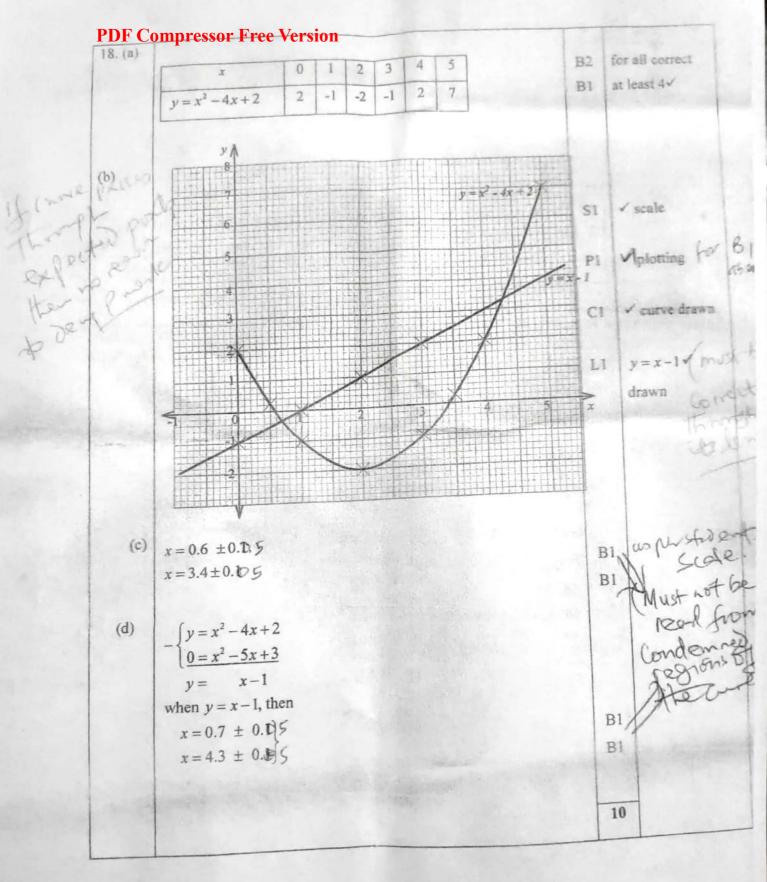
)F	F Compressor Free Version $x^{2} + \frac{8}{3}x + \left(\frac{4}{3}\right)^{2} = \frac{6}{3} + \left(\frac{4}{3}\right)^{2}$	MI	
	$\left(x+\frac{4}{3}\right)^2 = \frac{34}{9}$	1	
	$x + \frac{4}{3} = \pm \sqrt{\frac{34}{9}}$		The or descrimin
	$x = \frac{-4 \pm \sqrt{34}}{3} (x \text{ is made the})$ $x = -3.28 \text{ or } x = 0.610$	M1	√34 = 5.831 - or discrimi, -5 \$31-430 (For both). +5.831-4
	(1)	A1 3	(for the
	W:H:D 3: 5: 8		
	5:6:x No. of days = $5 \times \frac{8}{6} \times \frac{3}{5}$	MI	Follow through from
	= 4 days. Cost = 5×6×4×40	MI	Stor cases that lead to p800,
	= Ksh 4800	A	
- 1		3	



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PDF Compressor Free Version Longitude difference = $30 - 10 = 20^{\circ}$ 12. Impliedt. Working 600 mm = 20 × 60 Cos θ MI $\cos \theta = 0.5$ $\theta = 60^{\circ}$ Latitude = 60°N AL 3 $OQ = \frac{2}{3}p + \frac{1}{3}r$ / $p + \frac{1}{3}r$ BI PROVERPULEDON or seen share necessy Mit here necessy PR->BI 13. $3^{*} 3^{*} 3^{*} = p + 3(r - p)$ = 3r - 2p = -OQ + OS $= -\frac{2}{3}p - \frac{1}{3}r + 3r - 2p$ $= \frac{8}{3}r - \frac{8}{3}p$ $V = -\frac{8}{3}p + \frac{8}{3}r - \frac{8}{3}p$ Any that is combine is per to Ebitin (Ar muit) $\mathbf{OS} = \mathbf{p} + 3(\mathbf{r} - \mathbf{p})$ QS = -OQ + OS $=\frac{8}{3}r - \frac{8}{2}p$ AI APPLY (ow-) 5 4 Completely may $P(MW \text{ or } WM) = \frac{6}{10} \times \frac{4}{9} + \frac{4}{10} \times \frac{6}{9} \quad (Y \text{ only one combinat})$ 14. MI $=\frac{24}{90}+\frac{24}{90}$ MI beth parts $=\frac{8}{15}$ / pa Ai 3 15. Det(T) = 18Bet=18 Alt ling **B**1 Area of object OAB = $\frac{\text{Area of image}}{\text{Det}(T)}$ MI Equivalent $=\frac{\frac{1}{2}\times18\times6}{18}$ = 3 units 2Tucace of Hens's formulas forlow through Al 3 121/2 MS

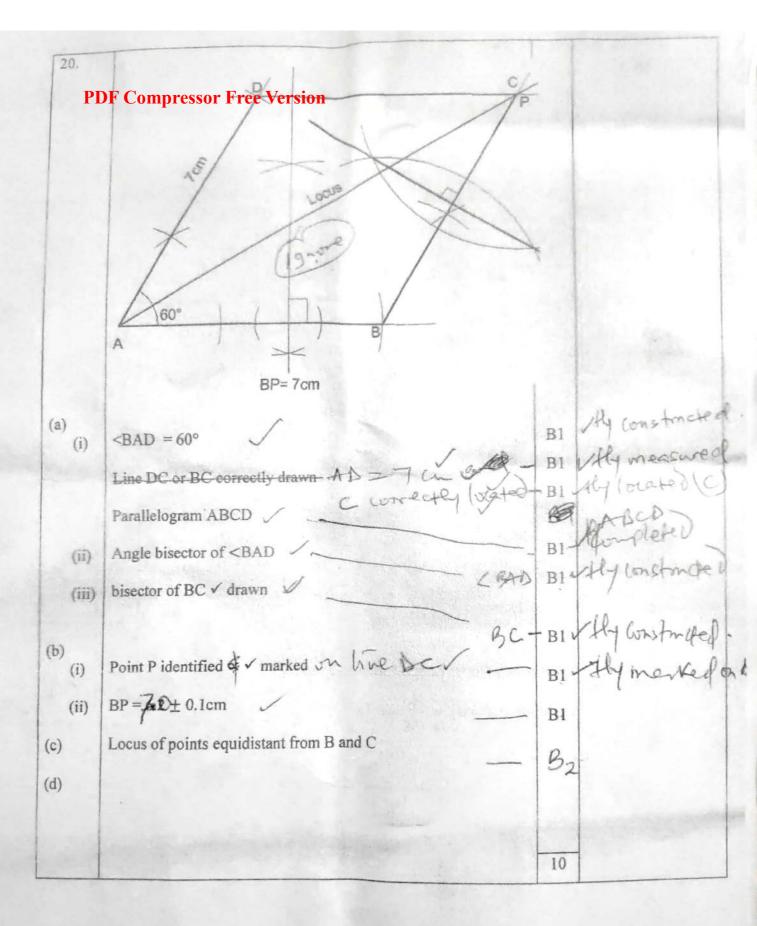
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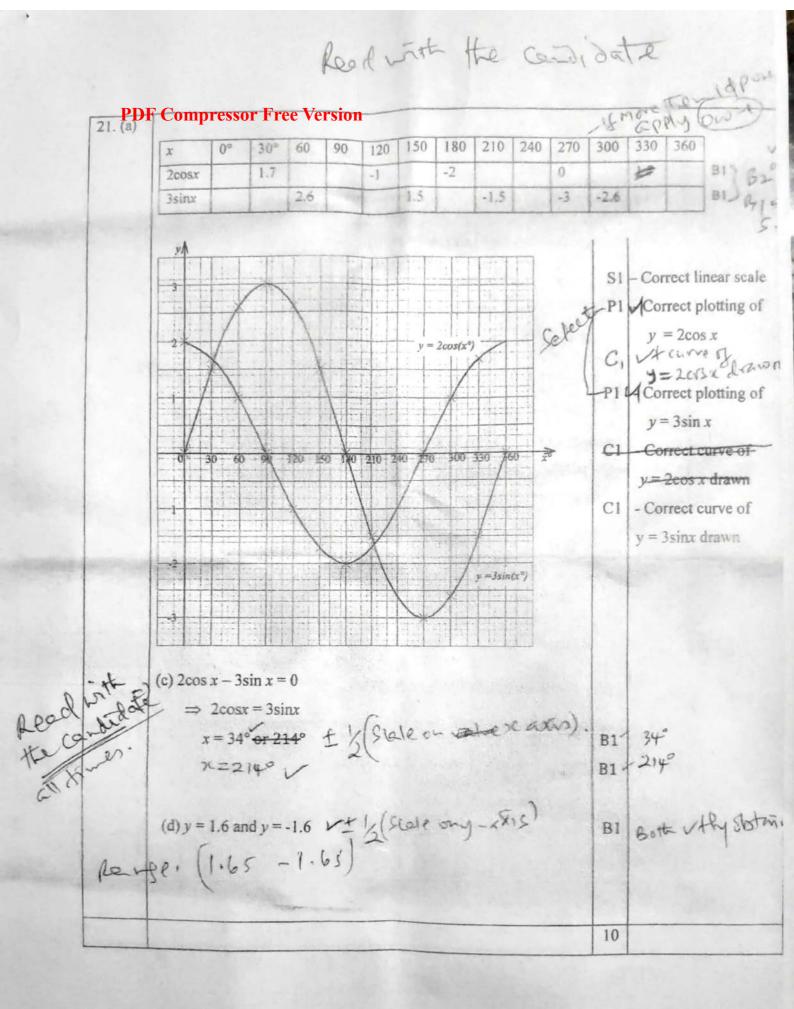


8

19. (a) Modal class
$$30 - 40$$

(b) $\frac{x}{PDF} \frac{f}{Compresson free Version}}{15 & 8 & 120 & 225 & 1800}{15 & 12 & 420 & 1225 & 14700}{45 & 4 & 180 & 2025 & 8100}{55 & 2 & 110 & 3025 & 6050}$
(i) $\frac{x}{x} = \frac{\sum xf}{N} = \frac{1100}{40} / \frac{1}{40} / \frac{1}{27.5} / \frac{1100}{40} / \frac{1}{27.5} / \frac{1}{5} / \frac{1}{$





11

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23. (a) Taxable income
= \$2000 + 7800 + 5000
PDF Compressor Free Version
(i) (a) Tax payable
1180 × 0.1 = 1118'
10534 × 0.2 = 2106.8
10534 × 0.2 = 206.8
10534 × 0.2 = 263.5
22018 × 0.3 = 6605.4
Total tax = 14043.8
Net tax = 14043.8 - 1280 ×
= 12763.8 ×
(b) Additional tax

$$3=722$$
 9. 40 = $\frac{4}{100}$ × 52000 × 0.3 ×
= Ksh 624
Net salary = 64300 - 12763.8 = 624 (64500 + 2050) (127635 - 624)
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S = 53 + 49 2 - 20 - Ay

