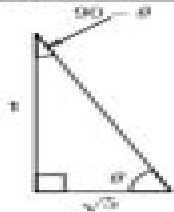


ZERAKI ACHIEVERS EXAMINATIONS
TERM 2 – 2022
MATHEMATICS FORM 4 PAPER 2 (121/2)
MARKING SCHEME

NO.	WORKING	MARKS	REMARKS
1.	$(\log_{10} x)^2 = 3 - 2\log_{10} x$ Let $\log_{10} x = t$ $t^2 = 3 - 2t$ $t^2 + 2t - 3 = 0$ $t = \frac{-2 \pm \sqrt{2^2 - 4 \times 1 \times -3}}{2}$ $t = \frac{-2 \pm \sqrt{16}}{2} \rightarrow t = \frac{-2 \pm 4}{2}$ Either $t = \frac{-2 + 4}{2} = 1$ Or $t = \frac{-2 - 4}{2} = -3$ $\rightarrow \log_{10} x = 1 \rightarrow x = 10^1 \rightarrow x = 1$ Also $\log_{10} x = -3 \rightarrow x = 10^{-3} \rightarrow x = \frac{1}{10^3} = \frac{1}{1000}$	 M1 M1 A1 B1	 Forming and ✓ attempt to solve quadratic equation. Square root of 16, or factorization by grouping or adding c in completing square Both values of t Both values of x
	Total	4	
2.	Max Area = $\frac{1}{2} \times 4.15 \times 5.05 = 10.47875$ Min Area = $\frac{1}{2} \times 4.05 \times 4.95 = 10.02375$ Absolute Error = $\frac{10.47875 - 10.02375}{2} = 0.2275$ Percentage Error = $\frac{0.2275}{\frac{1}{2} \times 4.1 \times 5.0} \times 100$ = 2.220%	 M1 M1 A1	 Expression for absolute error in area Expression for percentage error
	Total	3	
3.	 hyp = $\sqrt{1^2 + (\sqrt{5})^2} = \sqrt{6}$ $\sin(90 - \theta) = \frac{\sqrt{5}}{\sqrt{6}}$ $\frac{\sqrt{5} \times \sqrt{6}}{\sqrt{6} \times \sqrt{6}} = \frac{\sqrt{30}}{6}$	 M1 A1	 Expression for $\sin(90 - \theta)$

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Michael Hoelscher



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