

A Level Maths - Paper 1 - 2023 Mark Scheme

No. ph	Question	Answer	Marks
1	$\int \frac{\sqrt{x(2x-5)}}{3} dx$	$\frac{4}{15}x^{\frac{3}{2}} - \frac{10}{9}x^{\frac{5}{2}} + C$	4
2	<p>$f(x) = 4x^3 + 5x^2 - 10x + 4a$</p> <p>a) Given that $(x - a)$ is a factor of $f(x)$ Find the value of a</p> <p>b) Solve $f(x) = 3$</p>	<p>$a = \frac{3}{4}$</p> <p>$x = 0, \frac{-5 \pm \sqrt{185}}{8}$</p>	3
3	<p>$a = \log_2 x$ $b = \log_2(x + 8)$</p> <p>Write the following in terms of a and b:</p> <p>a) $\log_2 \sqrt{x}$ b) $\log_2(x^2 + 8x)$ c) $\log_2(8 + \frac{64}{x})$</p>	<p>a) $\frac{1}{2}a$ b) $a + b$ c) $3 + b - a$</p>	<p>a) 1 b) 2 c) 3</p> <p>Total: 6</p>
4)	<p>a) Prove the distance of OA is $\sqrt{38}$ b) Find min value of a given $OB > OA$</p>	<p>b) $a > 3\sqrt{2}$, but a is an integer so $a = 5$</p>	<p>a) 1 b) 2</p> <p>Total: 3</p>
5	<p>a) Find α b) $f(x) \equiv -1/2 \cos x = 0$</p>	<p>$\alpha = -0.24\dots$</p> <p>$y = \frac{1}{2}x + 3$</p>	<p>a) 3 b) 2</p> <p>Total: 5</p>
6	<p>a) i) Find the centre of the circle ii) Find the radius</p> <p>b) range of values values for k</p>	<p>a) i) $C(-3k, k)$ ii) $r = \sqrt{10k^2 - 7}$</p> <p>b) $k < 7 - \sqrt{85}$ or $k > 7 + \sqrt{85}$</p>	<p>a) 3 b) 6</p> <p>Total: 9</p>

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G Psacharopoulos



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