

A Level Maths - Paper 1 - 2023 Mark Scheme

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

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**Lei Huang**

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