

A Level Maths - Paper 1 - 2023 Mark Scheme

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

# Pixl Club Edexcel Maths Mark Scheme

**Thirumalaisamy P.**  
**Velavancorresponding**



## **Pixl Club Edexcel Maths Mark Scheme:**

## Embracing the Song of Phrase: An Psychological Symphony within **Pixl Club Edexcel Maths Mark Scheme**

In a global consumed by screens and the ceaseless chatter of immediate transmission, the melodic elegance and emotional symphony produced by the published term often disappear into the back ground, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, set within the pages of **Pixl Club Edexcel Maths Mark Scheme** a stunning fictional prize overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this charming masterpiece conducts viewers on an emotional trip, skillfully unraveling the hidden songs and profound impact resonating within each cautiously constructed phrase. Within the depths with this moving assessment, we will investigate the book is key harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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