

2018 O Level A Maths Paper 1

Suggested answers by Ms Jayme Zhang (Key educator @ Keynote Learning)
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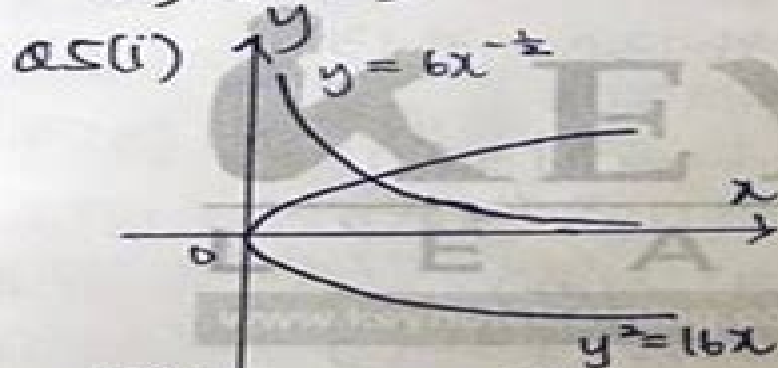
Q1. $5^{-\frac{3}{2}}$

Q2(ii) $2 + \sqrt{3}$

Q3. $\frac{3}{2x-1} + \frac{2x-5}{x^2+4}$

Q4a) a = -6, b = -11

b) $5 - \sqrt{3}$



(ii) $(1.5, 2\sqrt{6})$

Q6(i) $x = 3^{\frac{8}{5}}$

Q7(i) 40.5 s

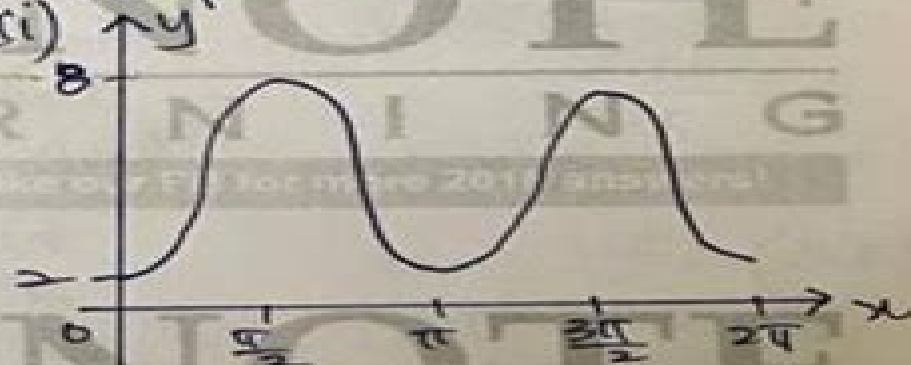
(ii) $\frac{2}{15}$ cm/s

Q8(i) $5 - 3\cos 2x$

(ii) period = π radians

Amp = 3

(iii)



Q9(i) $y = \frac{1}{2}x$

(ii) B(8, 4)

Q10(i) $r = \frac{20-3x}{2\pi}$

(iii) 4.15 m (3 sf)

(iv) min. pt

Q11(i) $5 + \frac{6}{2x-3}$

(ii) increasing

(iii) decreasing

(iv) $f(x) = 5x + 3\ln(2x-3) - 2$

Q12(i) 18

(ii) $a > \frac{3}{2}$, b = 12

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N Noddings



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Table of Contents Gce O Level Additional Mathematics Exam Papers

1. Understanding the eBook Gce O Level Additional Mathematics Exam Papers
 - The Rise of Digital Reading Gce O Level Additional Mathematics Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gce O Level Additional Mathematics Exam Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gce O Level Additional Mathematics Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gce O Level Additional Mathematics Exam Papers
 - Personalized Recommendations
 - Gce O Level Additional Mathematics Exam Papers User Reviews and Ratings
 - Gce O Level Additional Mathematics Exam Papers and Bestseller Lists
5. Accessing Gce O Level Additional Mathematics Exam Papers Free and Paid eBooks
 - Gce O Level Additional Mathematics Exam Papers Public Domain eBooks
 - Gce O Level Additional Mathematics Exam Papers eBook Subscription Services
 - Gce O Level Additional Mathematics Exam Papers Budget-Friendly Options

6. Navigating Gce O Level Additional Mathematics Exam Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Gce O Level Additional Mathematics Exam Papers Compatibility with Devices
 - Gce O Level Additional Mathematics Exam Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gce O Level Additional Mathematics Exam Papers
 - Highlighting and Note-Taking Gce O Level Additional Mathematics Exam Papers
 - Interactive Elements Gce O Level Additional Mathematics Exam Papers
8. Staying Engaged with Gce O Level Additional Mathematics Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gce O Level Additional Mathematics Exam Papers
9. Balancing eBooks and Physical Books Gce O Level Additional Mathematics Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gce O Level Additional Mathematics Exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gce O Level Additional Mathematics Exam Papers
 - Setting Reading Goals Gce O Level Additional Mathematics Exam Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gce O Level Additional Mathematics Exam Papers
 - Fact-Checking eBook Content of Gce O Level Additional Mathematics Exam Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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