

2012 JC2 H2 Math Mid-year Paper 2 solutions

1 Area of the triangle $OAB = \frac{1}{2} |\mathbf{a}| |\mathbf{b}| \sin \theta = \frac{1}{2} |\mathbf{a} \times \mathbf{b}|$. $k = \frac{1}{2}$

$$\overrightarrow{OP} = 3\mathbf{a} \quad \overrightarrow{OQ} = \frac{2}{5}\mathbf{b}$$

$$\overrightarrow{OM} = \frac{1}{2} (\overrightarrow{OP} + \overrightarrow{OQ}) = \frac{1}{2} \left(3\mathbf{a} + \frac{2}{5}\mathbf{b} \right)$$

$$\begin{aligned} \text{Area of triangle } OMQ &= \frac{1}{2} |\overrightarrow{OM} \times \overrightarrow{OQ}| = \frac{1}{2} \left| \frac{1}{2} \left(3\mathbf{a} + \frac{2}{5}\mathbf{b} \right) \times \frac{2}{5}\mathbf{b} \right| \\ &= \frac{3}{10} |\mathbf{a} \times \mathbf{b}| \end{aligned}$$

$$\text{Area of triangle } OMQ : \text{Area of triangle } OAB = \frac{3}{10} : \frac{1}{2} = 3 : 5$$

2 (i) $\frac{dy}{dx} = \frac{-\sin \theta}{2 \cos \theta} = -\frac{1}{2} \tan \theta$

(ii) Equation of tangent is

$$\begin{aligned} \frac{y - (1 + \cos \theta)}{x - 2(1 + \sin \theta)} &= -\frac{1}{2} \tan \theta & y &= -\left(\frac{1}{2} \tan \theta \right) x + \tan \theta + \tan \theta \sin \theta + 1 + \cos \theta \\ &= -\left(\frac{1}{2} \tan \theta \right) x + 1 + \tan \theta + \cos \theta + \frac{\sin^2 \theta}{\cos \theta} \\ &= -\left(\frac{1}{2} \tan \theta \right) x + 1 + \tan \theta + \frac{\cos^2 \theta + \sin^2 \theta}{\cos \theta} \\ &= -\left(\frac{1}{2} \tan \theta \right) x + 1 + \tan \theta + \sec \theta \end{aligned}$$

(iii) Substitute $x = 2$, $y = -1$ into the equation of the tangent above, we have

$$-\tan \theta + 1 + \tan \theta + \sec \theta = -1$$

$$\sec \theta = -2 \Rightarrow \cos \theta = -\frac{1}{2} \Rightarrow \theta = \pm \frac{2\pi}{3}.$$

Since there are two possible values of θ , there are two tangents passing through $(2, -1)$

(iv) The gradients of the tangents are given by

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Table of Contents Maths 2012 Ehc Paper Answers

1. Understanding the eBook Maths 2012 Ehc Paper Answers
 - The Rise of Digital Reading Maths 2012 Ehc Paper Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths 2012 Ehc Paper Answers
 - 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 Maths 2012 Ehc Paper Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths 2012 Ehc Paper Answers
 - Personalized Recommendations
 - Maths 2012 Ehc Paper Answers User Reviews and Ratings
 - Maths 2012 Ehc Paper Answers and Bestseller Lists
5. Accessing Maths 2012 Ehc Paper Answers Free and Paid eBooks
 - Maths 2012 Ehc Paper Answers Public Domain eBooks
 - Maths 2012 Ehc Paper Answers eBook Subscription Services
 - Maths 2012 Ehc Paper Answers Budget-Friendly Options
6. Navigating Maths 2012 Ehc Paper Answers eBook Formats

- ePub, PDF, MOBI, and More
- Maths 2012 Ehc Paper Answers Compatibility with Devices
- Maths 2012 Ehc Paper Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths 2012 Ehc Paper Answers
 - Highlighting and Note-Taking Maths 2012 Ehc Paper Answers
 - Interactive Elements Maths 2012 Ehc Paper Answers
- 8. Staying Engaged with Maths 2012 Ehc Paper Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths 2012 Ehc Paper Answers
- 9. Balancing eBooks and Physical Books Maths 2012 Ehc Paper Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths 2012 Ehc Paper Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths 2012 Ehc Paper Answers
 - Setting Reading Goals Maths 2012 Ehc Paper Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths 2012 Ehc Paper Answers
 - Fact-Checking eBook Content of Maths 2012 Ehc Paper Answers
 - 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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