

# Rotating curves [40 marks]

## 1. [Maximum marks: 15]

This question asks you to investigate the rotation of a coordinate point.

- (a) The line  $y = 0$  is rotated  $\theta$  radians anti-clockwise about the origin. Find the equation of the new line in terms of  $y$ ,  $x$  and  $\theta$ . [2]

- (b) If we have a coordinate point  $(a, b)$  rotated  $\theta$  radians anti-clockwise about the origin we can find the  $x, y$  coordinates of the new point by using the following parametric equations:

$$x = a \cos \theta - b \sin \theta \quad (1)$$

$$y = a \sin \theta + b \cos \theta \quad (2)$$

Rotate the point  $(1, 1)$  anti-clockwise around the origin by  $\frac{\pi}{6}$ ,  $\frac{\pi}{4}$  and  $\frac{\pi}{2}$  radians. Give your answers as coordinates. [4]

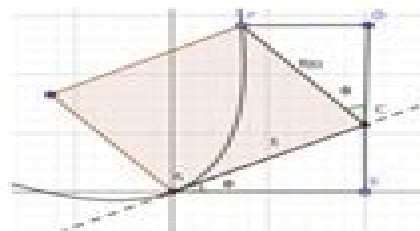
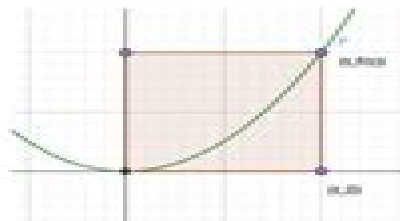
- (c) Draw a sketch of your points. What is the locus of points for this transformation? [4]

- (d) By squaring both equations (1) and (2) obtain an equation in terms of  $x$  and  $y$  only. What is the geometrical significance of this equation? [5]

## 2. [Maximum marks: 25]

This question expands this method to rotating a curve. We can derive the general equation as follows:

We start with a function  $f(t)$ , and draw a rectangle centred at the origin through point  $P: (t, f(t))$ . We then rotate the curve and the rectangle by  $\theta$  radians anti-clockwise from the horizontal. Angles  $ABC$  and  $CDP$  are right angles.



- (a) Explain why angle  $CAB$  and  $PCD$  are equal. [2]

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TRIGONOMETRY3 1 Degrees and Radians3 2 Definition of the Trigonometric functions3 3 Trigonometric Identities3 4 Trigonometric functions3 5 Sine and Cosine Rule3 6 Trigonometric Ratios3 7 Inverse Trigonometric functions3 8 Trigonometric equations3 9 3D Geometry

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FUNCTIONS2 1 Introduction to functions2 2 Linear functions2 3 Quadratic Functions2 4 Transformations 2 5 Absolute value functions 2 6 Simple Rational functions 2 7 Exponential functions 2 8 Logarithmic functions 2 9 Radical functions 2 10 Piecewise functions2 11 Composite functions 2 12 Inverse functions PART 3 TRIGONOMETRY3 1 Degrees and Radians3 2 Definition of the Trigonometric functions3 3 Trigonometric Identities3 4 Trigonometric functions3 5 Sine and Cosine Rule3 6 Trigonometric Ratios3 7 Inverse Trigonometric functions3 8 Trigonometric equations3 9 3D geometry ANSWER KEYPART 1 ALGEBRA1 2 Types of numbers1 2 Interval notation1 3 Rationalization1 4 Exponents and Logarithms1 5 Equations1 6 Equations with absolute value1 7 Polynomials1 8 Binomial Theorem1 9 Sequences and Series1 10 Complex numbers1 11 Mathematical inductionPART 2 FUNCTIONS2 1 Introduction to functions2 2 Linear functions2 3 Quadratic Functions2 4 Transformations 2 5 Absolute value functions 2 6 Simple Rational functions 2 7 Exponential functions 2 8 Logarithmic functions 2 9 Radical functions 2 10 Piecewise functions2 11 Composite functions 2 12 Inverse functions PART 3 TRIGONOMETRY3 1 Degrees and Radians3 2 Definition of the Trigonometric functions3 3 Trigonometric Identities3 4 Trigonometric functions3 5 Sine and Cosine Rule3 6 Trigonometric Ratios3 7 Inverse Trigonometric functions3 8 Trigonometric equations3 9 3D geometry

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PART 3 TRIGONOMETRY 3 1 Degrees and Radians 3 2 Definition of the Trigonometric functions 3 3 Trigonometric Identities 3 4 Trigonometric functions 3 5 Sine and Cosine Rule 3 6 Trigonometric Ratios 3 7 Inverse Trigonometric functions 3 8 Trigonometric equations

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Integrals

PART 3 DIFFERENTIAL EQUATIONS

3 1 Introduction to Differential equations

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## **Table of Contents Ib Mathematics Hl M12 Paper 3**

1. Understanding the eBook Ib Mathematics Hl M12 Paper 3
  - The Rise of Digital Reading Ib Mathematics Hl M12 Paper 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Mathematics Hl M12 Paper 3
  - 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 Ib Mathematics Hl M12 Paper 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Mathematics Hl M12 Paper 3
  - Personalized Recommendations
  - Ib Mathematics Hl M12 Paper 3 User Reviews and Ratings
  - Ib Mathematics Hl M12 Paper 3 and Bestseller Lists



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  - Ib Mathematics HL M12 Paper 3 Public Domain eBooks
  - Ib Mathematics HL M12 Paper 3 eBook Subscription Services
  - Ib Mathematics HL M12 Paper 3 Budget-Friendly Options
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  - ePub, PDF, MOBI, and More
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  - Ib Mathematics HL M12 Paper 3 Enhanced eBook Features
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  - Adjustable Fonts and Text Sizes of Ib Mathematics HL M12 Paper 3
  - Highlighting and Note-Taking Ib Mathematics HL M12 Paper 3
  - Interactive Elements Ib Mathematics HL M12 Paper 3
8. Staying Engaged with Ib Mathematics HL M12 Paper 3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Mathematics HL M12 Paper 3
9. Balancing eBooks and Physical Books Ib Mathematics HL M12 Paper 3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Mathematics HL M12 Paper 3
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ib Mathematics HL M12 Paper 3
  - Setting Reading Goals Ib Mathematics HL M12 Paper 3
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ib Mathematics HL M12 Paper 3
  - Fact-Checking eBook Content of Ib Mathematics HL M12 Paper 3
  - 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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