

Specialist Mathematics Summary sheets

Coordinate geometry:

Graphs of $f(x) = \frac{1}{ax^2 + bx + c}$, $a > 0$



Graphs of ellipses: $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$.

Centre (h, k) , x-intercepts at $x = h \pm a\sqrt{1 - \frac{k^2}{b^2}}$

for $1 - \frac{k^2}{b^2} \geq 0$, y-intercepts at $y = k \pm b\sqrt{1 - \frac{h^2}{a^2}}$

for $1 - \frac{h^2}{a^2} \geq 0$.

Graphs of hyperbolas: $\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$.

Centre (h, k) , x-intercepts at $x = h \pm a\sqrt{\frac{k^2}{b^2} + 1}$.

y-intercepts at $y = k \pm b\sqrt{\frac{h^2}{a^2} - 1}$ for $\frac{h^2}{a^2} - 1 \geq 0$.

Equations of asymptotes are $y = \pm \frac{b}{a}(x - h) + k$.

Transformations of trig. and inverse trig. functions: Express functions in the following

Compound and double angles: $\frac{\pi}{12} = \frac{\pi}{3} - \frac{\pi}{4}$.

$$\frac{5\pi}{12} = \frac{2\pi}{3} - \frac{\pi}{4} = \frac{7\pi}{12} = \frac{\pi}{3} + \frac{\pi}{4} = \frac{11\pi}{12} = \frac{2\pi}{3} + \frac{\pi}{4}$$

$$\frac{\pi}{4} = 2\left(\frac{\pi}{8}\right), \frac{\pi}{6} = 2\left(\frac{\pi}{12}\right), \text{ e.g. exact value } \cos \frac{5\pi}{12}$$

$$= \cos\left(\frac{2\pi}{3} - \frac{\pi}{4}\right) = \cos \frac{2\pi}{3} \cos \frac{\pi}{4} + \sin \frac{2\pi}{3} \sin \frac{\pi}{4}$$

$$= -\frac{1}{2} \times \frac{1}{\sqrt{2}} + \frac{\sqrt{3}}{2} \times \frac{1}{\sqrt{2}} = \frac{-1 + \sqrt{3}}{2\sqrt{2}}$$

$$\text{e.g. exact value of } \tan \frac{5\pi}{8}: \text{ let } \frac{5\pi}{4} = 2\left(\frac{5\pi}{8}\right)$$

$$\tan \frac{5\pi}{4} = \tan 2\left(\frac{5\pi}{8}\right), 1 = \frac{2 \tan \frac{5\pi}{8}}{1 - \tan^2 \frac{5\pi}{8}}$$

$$\therefore \tan^2 \frac{5\pi}{8} + 2 \tan \frac{5\pi}{8} - 1 = 0, \text{ use the quadratic}$$

$$\text{formula to find } \tan \frac{5\pi}{8} = -1 \pm \sqrt{2} \text{ and since } \frac{5\pi}{8}$$

is in the second quadrant, correct sol. is $-1 + \sqrt{2}$.

Partial fractions:

$$\text{e.g. } \frac{x+2}{x^2-3x-4} = \frac{x+2}{(x-4)(x+1)} = \frac{A}{x-4} + \frac{B}{x+1}$$

$$= \frac{A(x+1) + B(x-4)}{(x-4)(x+1)}, x+2 = A(x+1) + B(x-4)$$

$$\text{e.g. } \frac{2x-1}{x^2-2x+1} = \frac{2x-1}{(x-1)^2} = \frac{A}{x-1} + \frac{B}{(x-1)^2}$$

$$= \frac{A(x-1) + B}{(x-1)^2}, 2x-1 = A(x-1) + B \text{ etc.}$$

If degree of numerator is equal to/ higher than that of denominator, do long division first, e.g.

$$\frac{x^2-2x-2}{x^2-3x-4} = 1 + \frac{x+2}{x^2-3x-4} = 1 + \frac{A}{x-4} + \frac{B}{x+1}$$

Complex numbers: When a complex number z is multiplied by i , i.e. it is the rotation of z by 90° anticlockwise about O in the complex plane.

Multiplying by $-i$ results in clockwise rotation of z by 90° .



anticlockwise rotation of $\sqrt{2}\text{cis}\left(-\frac{\pi}{3}\right)$ by

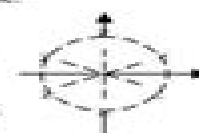
$$180^\circ, \therefore z = \sqrt{2}\text{cis}\left(-\frac{\pi}{3} + \pi\right) = \sqrt{2}\text{cis} \frac{2\pi}{3}$$

$$\therefore |z| = \sqrt{2}, \text{ Arg } z = \frac{2\pi}{3}.$$

Locating roots of a number in the complex plane: e.g. Plot the sixth roots of -1 in the complex plane.

There are 6 of them and the obvious one

is i because $i^6 = -1$. They are spaced out at equal angles on a circle centred at O and has a radius $= |i| = 1$.



Each angle $= \frac{360^\circ}{6} = 60^\circ$.

Fundamental theorem of algebra: An n -degree polynomial (equation) always has n linear factors (roots, solutions) over $\mathbb{C}$.

The conjugate root theorem: For a polynomial equation with real coefficients, the non-real roots always occur in conjugate pairs, e.g. $x^3 + 2x^2 - 6x + 8 = 0$ is a third degree polynomial equation with real coefficients.

$\therefore$ it has 3 roots according to the Fundamental theorem of algebra. Given that $1+i$ is one of the roots, $1-i$ must be another root according to the conjugate root theorem.

The third root must be a real number otherwise a fourth one exists and contradicts the Fund. theorem of algebra. To find the third root, write the conjugate roots and the third root c as factors of the polynomial,

$$x^3 + 2x^2 - 6x + 8 = (x - (1+i))(x - (1-i))(x - c)$$

$$= (x^2 - 2x + 2)(x - c), \therefore -2c = 8, c = -4.$$

Polynomials with complex coefficients: e.g. Factorise $z^2 - i$.

$$\text{Let } z^2 - i = (z - (a+bi))(z + (a+bi))$$

$$= z^2 - (a^2 - b^2) - 2abi$$

$$\therefore a^2 - b^2 = 0 \text{ and } 2ab = 1. \text{ Solve to obtain}$$

$$a = \frac{\sqrt{2}}{2} \text{ and } b = \frac{\sqrt{2}}{2}.$$

Specialist Mathematics

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Table of Contents Specialist Mathematics

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

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