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Engineering Maths 1. On successful completion of this unit you should be able to: . Solve problems involving functions and trigonometric equations. . Solve problems involving exponential and logarithmic equations. . Apply mathematical techniques to solve problems involving complex numbers and vectors. .

~~engineering maths~~

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$1 = r \cos(\theta) \cos \phi + c$ where we have used the formula $\cos A \cos B - \sin A \sin B = \cos(A + B)$ Differentiating again and simplifying as before, $y. 2 = r \cos(\theta) \cos \phi + c$. Similarly $y. 3 = r \cos(\theta) \cos \phi + c$.
..... Thus $y \cos(\theta) \cos \phi = r \cos(\theta) \cos \phi + c$ Where $r = a^2 + b^2$ and $\theta = \tan^{-1}(b/a)$.

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A number which is of the form $a + ib$ where $a, b \in \mathbb{R}$ and $i^2 = -1$ is called a complex number and it is denoted by z . If $z = a + ib$ then a is called the real part of z and b is called the imaginary part of z and are denoted by $\text{Re}(z)$ and $\text{Im}(z)$. For example, if $z = 3 + 4i$ then $\text{Re}(z) = 3$ and $\text{Im}(z) = 4$. Note:

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The aim of this course is to ensure that students are competent in the fundamental mathematics required for engineering degree programmes. Intended Learning Outcomes of Course By the end of this course students will be able to: BLOCK 1 - Numbers, Algebra and Geometry (Chapter 1) and Functions (Chapter 2)

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