

Engineering Mathematics 1

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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 e axcos ()? bx+ 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= r2e axcos ()2?+bx+c. Similarly y. 3= r3e axcos ()3?+bx +c. Thus y rneax cos()n bxc n = ?+ + Where r = a2 +b2and ? = 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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