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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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$1 = r \text{e}^{i\alpha} \cos(\theta) - bx + c$ where we have used the formula $\cos A \cos B - \sin A \sin B = \cos(A + B)$ Differentiating again and simplifying as before, $y_2 = r_2 \text{e}^{i\alpha} \cos(\theta) + bx + c$. Similarly $y_3 = r_3 \text{e}^{i\alpha} \cos(\theta) + bx + c$ Thus $y = r \text{e}^{i\alpha} \cos(\theta) + bx + c$ 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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