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- . Solve problems involving functions and trigonometric equations.
- . Solve problems involving exponential and logarithmic

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$1 = r e^{ax} \cos (bx + c)$ where we have used the formula $\cos A \cos B - \sin A \sin B = \cos (A + B)$ Differentiating again and simplifying as before, $y. 2 = r^2 e^{ax} \cos$

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(2) $y = r \cos(\theta - \alpha)$. Similarly $y = r \sin(\theta - \alpha)$

(3) $y = r \cos(\theta - \alpha)$

.....
Thus $y = r \cos(\theta - \alpha)$ where $r = \sqrt{a^2 + b^2}$ and $\alpha = \tan^{-1}(b/a)$.

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A number which is of the form $a + ib$ where

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$a, b \in \mathbb{R}$ 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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mathematical sums such as: $12 + 5 = 17$ and $18 \div 2 = 9$ The division sign \div can be

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replaced by a dividing line so we can write $18 \div 2 = 9$ as $9 \times 2 = 18$. In engineering it is common to use the solidus instead of the dividing line and write $18/2 = 9$

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