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~~engineering maths~~

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$1 = r \text{e}^{ax} \cos(\theta) \text{bx} + c$ where we have used the formula $\cos A \cos B \mp \sin A \sin B = \cos(A + B)$ Differentiating again and simplifying as before, $y. 2 = r2e^{ax} \cos(\theta) \text{bx} + c$. Similarly $y. 3 = r3e^{ax} \cos(\theta) \text{bx} + c$. Thus $y r \text{neax} \cos(\theta) \text{bx} + c = \text{++} +$ 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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