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engineering-maths
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 $1 = r \cos \alpha \cos (\theta \pm \beta) + c$ where we have used the formula $\cos A \cos B \pm \sin A \sin B = \cos (A \pm B)$ Differentiating again and simplifying as before, $y_2 = r^2 e^{ax} \cos (2\theta) + bx + c$. Similarly $y_3 = r^3 e^{ax} \cos (3\theta) + bx + c$. Thus $y = r \cos \alpha \cos (n \theta) + bx + c$ Where $r = a^2 + b^2 \tan^2 \theta = \tan^{-1}(b/a)$.

Engineering Mathematics 1 - DP4U
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:

ENGINEERING MATHEMATICS 1
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