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simplifying as before, $y_2 = r_2 e^{ax} \cos(\omega t + bx + c)$. Similarly $y_3 = r_3 e^{ax} \cos(\omega t + bx + c)$ Thus $y = r e^{ax} \cos(\omega t + bx + c)$ Where $r = \sqrt{a^2 + b^2}$ 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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