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Find the nth derivations of  $e^{ax} \cos(bx + c)$  Solution:  $y. 1 = e^{ax} - b \sin(bx + c) + a e^{ax} \cos(bx + c)$ , by product rule. .i.e,  $y. 1 = e^{ax} [a \cos(bx + c) - b \sin(bx + c)]$  Let us put  $a = r \cos \theta$ , and  $b = r \sin \theta$ .  $a^2 + b^2 = r^2$  and  $\tan \theta = b/a$  .i.e.,  $r = \sqrt{a^2 + b^2}$  and  $\theta = \tan^{-1}(b/a)$  Now,  $y = e^{ax} [r \cos \theta \cos(bx + c) - r \sin \theta \sin(bx + c)]$   $1 = e^{ax} [r \cos(\theta + bx + c)]$  .i.e.,  $y = e^{ax} r \cos(\theta + bx + c)$

Engineering Mathematics – I

Lecture 57: Solution of Higher Order Homogeneous Linear Equations; Lecture 58: Solution of Higher Order Non-Homogeneous Linear Equations; Lecture 59: Solution of Higher Order Non-Homogeneous Linear Equations (cont.) Lecture 60 : Cauchy-Euler Equations

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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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## ENGINEERING MATHEMATICS-I

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Logistic equation (Verhulst equation; Sec. 1.5). Constant solutions  $y = 0$  and  $y = 1 - 2$ . For these,  $y = 0$ . Increasing solutions for  $0 < y(0) < 1 - 2$ , decreasing for  $y(0) > 1 - 2$ . 6. The solution (not of interest for doing the problem) is obtained by using  $dy/dx = 1/(dx/dy)$  and solving  $dx/dy = 1/(1 - \sin y)$  by integration,  $x = c + 2/(\tan(1 - 2y) + 1)$ ; thus  $y = 2 \arctan((x - 2c)/(x + c))$ . 8. Linear ODE.

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