DE Assignment 5

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$$\cos \frac{1}{2} = \sqrt{\frac{1+\cos 0}{2}}$$
, since $\cos \frac{0}{2} = \frac{1}{2}$ gundimid $1 = \frac{1}{2}$ the $\cos \frac{1}{2} = \frac{1}{2}$ $\cos \frac{1}{2} = \frac{1}{2}$ $\cos \frac{1}{2} = \frac{1}{2}$

-31:4

.i. repended roots,
$$g_c = e^{\alpha x} [A_0 + A_1 \times] \cos 3x + e^{\alpha x} [B_0 + B_1 \times] \sin 3x$$

$$= [A_0 + A_1 \times] \cos 3x + [B_0 + B_1 \times] \sin 3x$$

(a)
$$10^{4} - 40^{2} = 16$$
 $y = 0$ let $0^{2} = 0$ $(n^{2} - 4n + 16)_{3} = 0$
 $10^{4} + 40^{4} = 0$
 $10^{4} + 40^{4} = 0$
 $10^{2} = 4 + 40^{4} = 0$
 $10^{2} = 2 \pm 102$, 2 ± 200 ;

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 $10^$

4-e Bx (Az (05x+Bz sink) + e Br (Az (05x-Bz sin (M))

$$(D-2)(D^3-3D^2-D+3)=0$$
 $CD=1$ is a sola

Tweld the same

$$(D-2)(D-1)(D^2-2D-3D)=0$$

$$(D-5)(D-1)(D-3)(D+1)=0$$

(1)
$$(D^{2} - D - \lambda) = 36 \times e^{2\pi}$$

 $y = \frac{1}{D^{2} - 0 - 2} \left[36 \times e^{2\pi} \right]$ Theorem 2
 $y = e^{2\pi} \left[\frac{1}{[0+1]^{2} - (0+1)^{2}} (36 \times) \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} + 3D} 36 \times \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} + 3D} 36 \times \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} + 3D} 2 \times \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} + 3D} 2 \times \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} + 3D} 2 \times \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} - 2D} (12 \times - 12) \right]$
 $y = e^{2\pi} \left[\frac{1}{D^{2} - 2D} (12 \times - 12) \right]$

yp = 2e2x[3x2-2x]

$$\frac{1}{50^{3}+0^{2}+50+5} = \frac{1}{5\cos^{2}x} = \frac$$

$$b = \frac{D-1}{(-2^2-1)(1/5(-2^2)+1)}$$

$$y_{0} = \frac{D-1}{(-5)(1/5)}$$

$$= -1 \left[-3 \sin 2x - \cos 2x \right]$$

$$y_{0} = 2 \sin 2x + \cos 2x$$

$$D = \frac{1}{D^4 - D^2} \int_{-D^2}^{D^2} \frac{1}{2} e^{\pi x} \int_{-\infty}^{\infty} \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2$$

$$y = \frac{1}{0^{4} - 0^{2}} de^{x} = \frac{1}{0^{4} col(1)} 2e^{x} x'$$

$$y = \frac{1}{40^3 - 20} 2 xe^{x}$$

$$= \frac{2}{2} xe^{x}$$