Adupped do Irobalhold de Calcula II

1) 
$$J'' - J = \begin{cases} t & 0 \le t < e \\ -t & t > e \end{cases}$$
 $J'' - J = f(t) = t + u(t-e)(-t-t)$ 
 $= t - 2u(t-e)(t-e+e)$ 

$$f(t) = t - 2u(t-e)(t-e) - 2au(t-e)$$

$$\int_{0}^{2} L_{y} - L_{y} = \frac{1}{N^{2}} - 2 \frac{e^{-e}}{h^{2}} - 2 \frac{e^{-e}}{h^{2}}$$

$$L_{y} = \frac{1}{h^{2}(h^{2}-1)} - \frac{2e^{-e}}{h^{2}(h^{2}-1)} - \frac{2e^{-e}}{h(h^{2}-1)}$$

$$\frac{1}{A^{2}(N^{2}-1)} = \frac{A}{A} + \frac{B}{A^{2}} + \frac{C}{A+1} + \frac{D}{A+1}$$

$$A_{A}(N^{2}-1) + B(N^{2}-1) + C_{A}(D^{2}-1) + D_{A}(D^{2}-1) + D_{A}(D^{2}-1) + D_{A}(D^{2}-1)$$

$$A_{A}(D^{2}-1) + B_{A}(D^{2}-1) + C_{A}(D^{2}-1) + D_{A}(D^{2}-1) + D_{A}(D^{2}-1) + D_{A}(D^{2}-1)$$

$$\begin{array}{lll}
 A + C + D = 0 & A = 0 \\
 B = -1 & C + D = 0 \\
 - C + D = 0 & 2D = 1 \\
 - C + D = 1 & D = 1/2 \\
 - B = 1 & C = -1/2
 - 1/2$$

$$\frac{1}{N^{2}(N^{2}-1)} = -\frac{1}{N^{2}} - \frac{1}{2N+1} + \frac{1}{2N-1}$$

$$\frac{1}{N(N^{2}-1)} = \frac{A}{N} + \frac{B}{N+1} + \frac{C}{N-1} = -\frac{1}{N} + \frac{1}{2(N+1)} + \frac{1}{2(N+1)}$$

$$A(1^{2}-1) + B_{5}(5-1) + C_{1}(5+1) = A_{1}^{2}-A_{1}^{2}-B_{5}^{2}-B_{5}^{2}-C_{5}^{2}=C_{5}^{2}$$
  
 $A+B+C=0$   $C-B=0$   $A=-1$   $C=1/2=B$ 

$$\frac{dy}{dt} = \frac{1}{N^{2}(N^{2}-1)} - \frac{2e^{\frac{1}{N}}}{N(N^{2}-1)} - \frac{2e^{\frac{1}{N}}}{N(N^{2}-1)}$$

$$\frac{d}{dt} = \int_{-\infty}^{\infty} \left(\frac{1}{N^{2}(N^{2}-1)}\right) - 2e^{\frac{1}{N}\left(\frac{e^{\frac{1}{N}}}{N^{2}(N^{2}-1)}\right)} - 2e^{\frac{1}{N}\left(\frac{e^{\frac{1}{N}}}{N^{2}(N^{2}-1)}\right)}$$

$$\frac{d}{dt} = \int_{-\infty}^{\infty} \left(\frac{1}{N^{2}(N^{2}-1)}\right) - 2e^{\frac{1}{N}\left(\frac{e^{\frac{1}{N}}}{N^{2}(N^{2}-1)}\right)$$

$$\frac{d}{dt} = \int_{-\infty}^{\infty} \left(\frac{1}{N^{2}(N^{2}-1)}\right)$$

$$\int_{0}^{-1} \left( \frac{1}{e^{2}(e^{2}-1)} \right) = \int_{0}^{-2} \left( \frac{1}{e^{2}} - \frac{1}{2} \frac{e}{e^{2}} \right) + \frac{1}{2} \frac{e^{-2s}}{s-1}$$

$$= - \int_{0}^{-1} \left( t - e \right) \left( t - e \right) - \int_{0}^{-1} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s} \int_{0}^{-2s} \frac{1}{s^{2}} \left( t - e \right) + \int_{0}^{-2s} \int_{0}^{-2s$$

$$\int_{a}^{-1-21} \left(\frac{e}{b}\right) = \int_{a}^{-1} \left(\frac{e}{b}\right) + \int_{a}^{-20} \frac{e^{-20}}{b^{2}} + \int_{a}^$$

$$J = -t - \frac{1}{2} \cdot \frac{t}{2} \cdot \frac{t}{$$