Wednesday, December 22, 2021 11:25 AM

$$L(Q_{3}+C_{2}y_{2}) = (Q_{3}+Q_{3}y_{1}^{2}+P\cdot Q_{3}y_{1}^{2}+Q(Q_{3}y_{1}+Q_{2}y_{2})$$

$$= Q\cdot y_{1}^{2}+C_{2}y_{2}^{2}+P\cdot Q\cdot y_{1}^{2}+P\cdot C_{2}y_{2}^{2}+QQ_{3}y_{1}+Q\cdot C_{2}y_{2}$$

$$= Q\left(y_{1}^{2}+P\cdot y_{1}^{2}+Q\cdot y_{1}\right)+C_{2}\left(y_{2}^{2}+P\cdot y_{2}^{2}+Q\cdot y_{2}\right)$$

$$L(y_{1})=0$$

$$= Q\cdot 0+C_{2}\cdot 0=0$$

M=e<sup>2</sup>, M2=e<sup>2</sup>, A, A2ER, A ± M2 en. nez. ??

 $W(y_1, y_2) = \begin{vmatrix} y_1 & y_2 \\ y_1 & y_2 \end{vmatrix} = \begin{vmatrix} e^{\lambda_1 x} & e^{\lambda_2 x} \\ \lambda_1 & e^{\lambda_1 x} & \lambda_2 & e^{\lambda_2 x} \end{vmatrix} = e^{\lambda_1 x} \lambda_2 - e^{\lambda_2 x} \lambda_1 \cdot e^{\lambda_1 x}$ 

$$= \lambda_2 - e^{(\lambda_1 + \lambda_2) \times} - \lambda_1 e^{(\lambda_1 + \lambda_2) \times} = e^{(\lambda_1 + \lambda_2) \times} (\lambda_2 - \lambda_1) = 0$$

$$= e^{(\lambda_1 + \lambda_2) \times} (\lambda_2 - \lambda_1) = 0$$

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W(y, M2) ±0, HX
=> M; M; ln. nezavisi

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$$A'' - A' - CA = 0$$
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H=e<sup>x</sup>, 
$$y_2 = xe^x$$
 ln.  $xe^x$ ?

 $W(y_1, y_2) = \begin{vmatrix} y_1 & y_2 \\ y_1 & y_2 \end{vmatrix} = \begin{vmatrix} e^x & xe^x \\ se^x & e^{x_1} & s.e^x \end{vmatrix}$ 
 $= e^{x_1} \cdot (e^x + xse^x) - x \cdot e^x \cdot s \cdot e^x$ 
 $= e^x \cdot (e^x + x \cdot se^x - s.x \cdot e^{sx})$ 
 $= e^x \cdot (e^x + x \cdot se^x - s.x \cdot e^{sx})$ 
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 $= e^x \cdot (e^x + x \cdot se^x - s.x \cdot e^x)$ 
 $= e^x \cdot (e^x + x \cdot s$ 

$$W(x) = (x(x) + iv(x))^{1/2} + (x(x) + iv(x)$$

$$3^{11} + 23^{1} + 24 = 0$$

$$3^{12} + 27 + 2 = 0$$

$$3^{12} + 27 + 2 = 0$$

$$3^{12} = -2 = 1 = 0$$

$$4 = 1 = 0$$

$$4 = 1 = 0$$

$$3^{12} = -1 + i \quad (4 = 1) = 0$$

$$3^{12} = -1 + i \quad (4 = 1) = 0$$

$$3^{12} = -1 + i \quad (4 = 1) = 0$$

$$3^{12} = -1 - i \quad (4 = 1) = 0$$

$$3^{12} = -1 - i \quad (4 = 1) = 0$$

$$y_1(x) = y(x) = e^{dx} cos bx = e^{-x} - cos x$$
 |  $y_1(x) = y(x) = e^{dx} cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = y(x) = e^{dx} - cos bx = e^{-x} - cos x$  |  $y_2(x) = e^{-x} - cos x = e^{-x} - cos x$  |  $y_2(x) = e^{-x} - cos x = e^{-x} - cos x$  |  $y_2(x) = e^{-x} - cos x = e^{-x} - cos x$  |  $y_2(x) = e^{-x} - cos x = e^{-x} - cos x$  |  $y_2(x) = e^{-x} - cos x = e^{-x} -$