## 5. előadás

$$y''-2y'+y=0$$
 $\lambda^2-2\lambda+1=0$ 
 $\lambda^2=1$ 
 $\lambda^2=1$ 

Pl.: 
$$y'' - 2y' + 2y = 0$$

$$\lambda^{2} - 2\lambda + 2 = 0 \quad \text{Lowers}$$

$$\lambda = 1 \pm (-1)' = n \pm i$$

$$\ell^{(1-i)} \times \ell^{(1-i)} \times \ell^{(1$$

$$|W_{K}| = \begin{vmatrix} e^{+}\cos x & e^{+}\sin x \\ -e^{-}\sin x & e^{+}\cos x \end{vmatrix} = e^{-}\cos x + e^{-}\sin x - e^{-}\cos x + e^{-}$$

hom. lin. allandi eggülthatis n-edrendi dif egs:

A = any (n) + an y (n-1) 1 ... + any + any =0

cien aldjuk meg, hogg megsenesstis ær alæprendsterét (mo.-2 vætforteréner em bázisát): y1, y21..., yn.

Ether megaldjur oz

and + ann dh-1 + -.. + cond + co = 0

rawterint: rus essentetet

- ha d f R K-Mores Zerusher, abbor

ela, xelx, 22eld, ..., x1-ela

-) alaprendren

(K7/2: belső rezanancia, K=1:elx-salaprend

- ha d = d + pi (pxo) k-mores zerusher

et copx , ex simpx > x2 exx cospox, x2 exx sixpx ( ) aloprendner 22-1 exx caspor 1 22-1 exx sin pox (K7/2 belső resoraria, K1: első son) A megaldus et alaprendster lineans rembinició jarent all feny Inhomogén eggen letels megaldása: yiá = Yhá + yip prosafins voing moderan (any + ... + any = 1(x)) Jip wheelier alse (non-ell few policion). ed & (m-04 form portion)e (mued John polin). Sind food (mued the polinon) cost+ Hun -dbui balisan) Nin NX

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