## TEK Nº 5, Browngews reoprus tempobur

ODE-1. Nava bug of yero penerum unt. heograpopopopo DY:

[re bu encient notopopopo us ethus penerum)]  $y'' + y' = 4\cos(x + (x^2 + 1)e^{x})$ 

Jon = Yoo + Jan

Kairgen 700: y"+y=0

x2+1=0 => x1,2=±i

800 = GOSX+CZSINX

Kasgen Jin = Jityz

for A1 , A11+A=4007X

11,2= ± 1 => B=1

 $d(x) = y \cos x$   $d_1 = x (A \cos x + B \sin x)$ 

In 25: 24+4=(xx+1)6x

92= 6x (Cx2+0x+E)

OABET: JOH = CICOSX + CZ SINX + ex (CXZ+OX+E) + X(ACOSX + BSINX)