PFP $y'' + 4y' - 12y = 88in2 \times 1499$ B-L 1) y'' + 4y' - 12y = 0 $K^2 + 4K - 12 = 0$ D=42-40101-12)=16+48=64 K1 = -4+8 = 2 40 = C1 0 e + C2 - 6x 2) Z=8sin2x Z = Acos2x + Bsin2x Z'= 2Bcos2x - 2Asin2x = -2(Aginxx-- Bcosex) Z"= -4 (Acos 2x + Asin 2x) - Hersen Alinex Present De Risinex Base + 1000 (COSX 4 10 CO) + 60000

-4 (Acos2x + B&n2x) +4.6-2). (A &n2x) -B cos2x) -12. (Acos2x + B&n2x)=85m2 -4Acos 2x - 4Beinzx-8Aconex + 8Bcosex 12Acos2x-12Bsin2x = 85in2x -16 Acos 2x - 16B gin2x - 8Asin2x +8 Bcos2x = 83in 2X 1-16A+8B=0 1A=-5 -16B-8A=8 1B=-5 7= - 5 cos 2x - = sinax y=y0+2=1C1.e2x -6x)+(- = cos2x-- 5 sin 2x) origee pemenne AHDY 3) 4(0)=0; 4/10)=0 1. ((+(2) + (- 5) 2. (C1.e2x+C2.e6x)+(- =cos2x

