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Homework 6

Problem 1 61) y"+4"+4++=1+e-x+2e2x ye: 73+72+2+1=0 72(2+1)+(2+1)=0 (x+1) (x2+1)=0 ス=-1, さん 4 = ex, 42= cisx, 43 = cis-x = cosx - isinx yo: f(x)=1+ex+2ex 4- A+ Bxe + Ce2x yt = Bex-Bxex+20e2x 4" = -280" +Bxe-x +4002x Y" = 3Be" - Bxe" + 8Ce2x A=1, B-2B+3B= 1 (+2C+4C+8C=2 B=1/2 C=2/4 yas= cex+c,cosx + c2sinx +

Problem 2

Problem 3

Problem 4

YGS = COPX + C, COSXX + C25 (NOX) - \$5E4x

 $\underline{\text{Problem 5}}$