

Written HW8 – MATH 3504 Spring 2021

Due by 8 March for timely completion credit

These problems are to be solved using the variation of parameters technique. Plot at least three solutions (by changing the values of c_1 and c_2) and submit your plots. (*note: you won't be able to solve the integrals for the d_1 and d_2 coefficients — that's fine, plot them anyway as I did in class*)

1. $x'' - x' - 6x = \tan(t)$

2. $x'' + x = \ln(t)$