



Differential Equations Assignment 11

Find a homogeneous linear differential equation with constant coefficients whose general solution is given.

(a) $y = C_1 e^x + C_2 e^{8x}$

(b) $y = C_1 \cos(7x) + C_2 \sin(7x)$

(c) $y = C_1 + C_2 e^{15x}$



Solutions to Assignment 11

(a) $y'' - 9y' + 8y = 0$

(b) $y'' + 49y = 0$

(c) $y'' - 15y' = 0$