



Differential Equations Assignment 13

Solve the differential equation using the method of undetermined coefficients.

$$\frac{1}{4}y'' + y' + y = x^2 - 2x.$$



Solutions to Assignment 13

$$y = C_1 e^{-2x} + C_2 x e^{-x} + x^2 - 4x + \frac{7}{2}.$$