MATH-302	2	
Homework	12	Problems

Pierre-Olivier Parisé Fall 2022

Section 8.2 — Problem A

25 Points

Solve the following IVP using the Laplace transform:

$$y'' + 3y' + 2y = 2e^t$$
, $y(0) = 0$, $y'(0) = -1$.

Section 8.2 — Problem B

25 Points

Solve the following IVP using the Laplace transform:

$$y'' - 2y' + y = t^2 e^t$$
, $y(0) = 1$, $y'(0) = 2$.

TOTAL (POINTS): 50.