

Quiz 4
April 7, 2016

Show your work

[5] 1.) $\mathcal{L}(1) = \underline{\hspace{2cm}}$

[5] 2.) $\mathcal{L}(0) = \underline{\hspace{2cm}}$

[10] 3.) Find a suitable form for ψ if the methods of undetermined coefficients is used for the following differential equations:

$$y'' + 4y' - 5y = 2e^t + 4e^{-t} + 3\cos(3t) + t^2$$