

MAP 2302: Worksheet July 23, 2018 Group nr: _____ Names:

1. Use Laplace transform to solve the IVP

$$y'' + 5y' + 6y = h(t), \quad y(0) = 0, \quad y'(0) = 0, \quad \text{where } h(t) = \begin{cases} 6, & 0 < t < 2 \\ 0, & t > 2 \end{cases}$$