1. Find the Laplace transform of each function. Since I gave you a table, I will need to see your work!

(a) \( f(t) = t. \)

(b) \( f(t) = e^{at}. \)

2. Solve \( y'' + 4y' + 4y = 0, \ y(0) = 0, \ y'(0) = 1 \) using Laplace transform methods.