
Lab 8 - Laplace Transforms

1. Find the Laplace transforms of the following functions.

a. $f(t) = 1 - \sin 2t$

b. $f(t) = 5t^3 e^{-t} - t \cos \sqrt{5} t$

2. Find the inverse Laplace transforms of the following functions.

a. $F(s) = \frac{s+4}{(s-1)(s+3)}$

b. $F(s) = \frac{3}{s^2(s-1)}$