

Laplace Transform Quiz

by Tarang Srivastava

1. Define the Laplace Transform for a function $f(t)$
2. Find $\mathcal{L}\{1\}$
3. Find $\mathcal{L}\{e^{at}\}$
4. Find $\mathcal{L}\{\sin at\}$
5. Show that the Laplace Transform is a linear operator
6. Find $\mathcal{L}\{5e^{-2t} - 3\sin 4t\}$
7. Define the Laplace Transform for a function $f'(t)$
8. Find $\mathcal{L}\{\cos at\}$ using the property from the previous question
9. Find $\mathcal{L}\{u_c(t)\}$
10. Find $\mathcal{L}\{u_c(t)f(t-c)\}$