

Assign9, Question 6 Hint

Saturday, April 10, 2021 10:33 AM

nice property of the Dirac delta function:

$$\int_0^{\infty} f(t) \delta(t-t_0) dt = f(t_0)$$

note that this also means that

$$\int_a^b f(t) \delta(t-t_0) dt = \begin{cases} f(t_0) & \text{if } a < t_0 < b \\ 0 & \text{otherwise} \end{cases}$$

(should have mentioned that in class, sorry!)