HW 8

 # 3

Show that for every sequence $x[n]$:

a) $\delta[n] * x[n] = x[n]$.

b) $\delta[n - n_o] * x[n] = x[n - n_o]$, where n_o is an integer.

c) $e^{j2\pi fn} * x[n] = e^{j2\pi fn} X(e^{j2\pi f})$, where $X(e^{j2\pi f})$ depends on f but not on n. What is the formula for $X(e^{j2\pi f})$?