Name _____

EE-3221 – Dr. Durant – Quiz 2
Winter 2020-'21, Week 2

This is an open-book quiz. You should find Table 5-6 and 5-7 especially helpful.

1. (3 points) Let $s(t) = \delta(t) + \delta(t-1) + \delta(t-2)$. Find $S(\omega)$, the Fourier Transform of $s(t)$, using tables.
2. (3 points) Let $x(t) = \cos(\pi/2 \times t)$. Find $X(\omega)$, the Fourier Transform of $x(t)$, using tables.
3. (4 points) Using tables and ***without*** evaluating the convolution integral, calculate the convolution of the 2 FTs you found above, $S(\omega) * X(\omega)$. Hint: Convolution in frequency property, Table 5-7.12.