Tune-Up Tuesday #11 for November 28, 2017

Continuous-time frequency response for an LTI system.

Homework problem 8.1(f).

(f) Plot the magnitude and phase of the continuous-time frequency response

for -10 rad/s < ** < 10 rad/s.

What is the frequency selectivity— lowpass, highpass, bandpass, bandstop, allpass or notch?

What is the impulse response of the system?

*Hint: The system is a continuous-time tapped delay line. It’s also known as a comb filter.* [*https://en.wikipedia.org/wiki/Comb\_filter*](https://en.wikipedia.org/wiki/Comb_filter)