

Name _____

EE-3221 – Dr. Durant – Quiz 5
Winter 2020-'21, Week 5

This is an *open*-book quiz. As always, you may also refer to your homework that is due today.

1. (2 points) Let $y[n] = 3x[n] - 2x[n-1] + x[n-3]$. Find the system impulse response, $h[n]$.
2. (2 points) Let $y[n] = 0.5y[n-1] + x[n]$. Find the system impulse response, $h[n]$.

(question #3 on back)

3. (6 points) Find the result of convolving $x[n] = \{3, 2, 1\}$ with $h[n] = \{7, -1, 5\}$.