## EE3221 Homework 6 Dr. Prust Assigned: 24 April 2020 Due: 1 May 2020 (1:00PM CDT)

Note: Problems from the course textbook (Ulaby and Yagle, 2018) are specified with the prefix "UY".

- 1. UY 7.23
- 2. UY 7.25 SELECTED ANSWERS: (a) system is unstable; (c)  $y[n] = \{\underline{1}, -7, 6\}$
- 3. UY 7.29 SELECTED ANSWERS: (a)  $H(e^{j\Omega}) = 1 + 0.5e^{-j\Omega} + e^{-j2\Omega}$ ; (b)  $y[n] = 0.5\sin(\frac{\pi}{2}n)$
- 4. UY 7.33
- 5. UY 7.36