Exercises Week 3 DSP

- 1. Characterize the following systems with respect to:
 - Memory
 - Linearity
 - Time invariance
 - Causality
 - Stability

 - a. $y[n] = n \cdot x[n^2]$ b. $y[n] = x[n] \cdot cos(\omega_0 n)$
 - c. y[n] = sin(x[n])
 - d. $y[n] = x[n] + n \cdot x[n+1]$