Name (Print) _____   Student ID _____

Problem 4. [20 Minutes] Consider a DT LTI system with the input-output pair shown below. (Hint: Construct the necessary signal from available input signal)

a) (3 pt) What is the step response? (Plot the step response, indicate the sample values.)

b) (3 Pt) What is the impulse response? (Plot the impulse response, indicate the sample values.)