Name _ Auswors_____

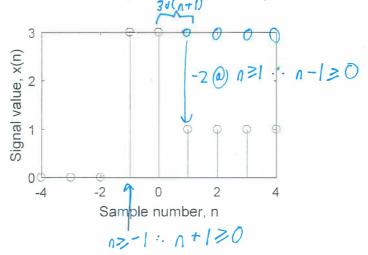
EE-3220 - Dr. Durant - Quiz 1 Winter 2016-'17, Week 1

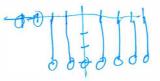
- 1. (2 points) Define "sampled."
- 2. (1 point) Besides being sampled, which is the other key property of a digital signal relative to an analog signal?
- 3. (3 points) Draw the basic DSP system block diagram including anti-alias and reconstruction filters, an ADC, and a DAC.

D'bampled" means measuring a orginal at a series of discrete, specific points in time.

1 et is guantized.

- 4. (1 point) Draw a stem plot sketch of $x(n) = \delta(n-1)$ for a reasonable range of n values.
- 5. (1 point) Draw a stem plot sketch of x(n) = -3u(n+2) for a reasonable range of n values.
- 6. (2 points) Express the signal in the given figure as the sum of 2 step functions. Note that x(n) = 1 for n>4, although this continuation to infinity is not shown in the figure.





6
$$y(n)=30(n+1)-20(n-1)$$