## CE-190 - Dr. Durant - Quiz 1 Fall 2015, Week 1

1. (1 point) What is a key difference between interpreting analog and digital voltage signals?

analog is continuous (infinite#of levels) + more susceptible tonoise
defilal is discrete (finite#of bools, ster only 2) + thus
less susceptible to moise

2. (1 point) What is 20 as a decimal number?

3. (2 points) Write all the 4-bit unsigned numbers in both binary and decimal.

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points) List/calculate the powers of 2 from 23 to 29 as decimal numbers.

(2 points) Convert 73 from decimal to binary. Show your work.

Answer in decimal (base 10):

$$2^{6}-1=63$$

b. Answer in binary (base 2):

swer in binary (base 2):

$$|11|111_{2} = 32+16+8+4+2+1=63$$

Checkly