Quiz 6 CMPE 364 Spring 2017

Name:

Student ID:

Consider an ADC configured with...

- Vref+ = 5V
- Vref- = 1V
- 10-bit resolution

The 10-bit result is 0b0010000000 (128)

What is the analog voltage? Be sure to show your work.

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We'll use the following equation: ((5-1)/(1024))*128+1
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Let's simplify it a bit... 4 \* 128 / 1024 + 1

And a bit more...

512 / 1024 + 1 = 1.5 V