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| Student Name:  Samantha Lopez-Montano | Lab 2 |

1. Give the two’s complement form for the following numbers using 8 bits. **Show your work.** . (Hint: Convert to binary and then convert to 2’s complement).
2. -14



1. -43



1. What is the hex value for this string: “Groot”.



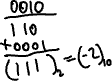
1. Add these two numbers using two’s complement scheme. (You may use 4 bit precision). **Show your work.**



a) 3-1 =



b)-5-2 =



1. What is the binary value stored in Z after this operation?

**X = 0001 1000**

**Y = 0011 0011**



**Z = X AND Y**

**Z =**



1. What is the binary value stored in Z after this operation?

**X = 0001 1000**

**Y = 0011 0011**



**Z = X OR Y**

**Z =**



1. What is the binary value stored in Z after this operation?

**X = 0011 0011**



**Z = NOT(X)**

**Z =**

