

3. Write the following values using 6-bit two's complement numbers. If the value is outside the range of representation write "Out-of-range" instead. [4 (-2 per blank or wrong answer, min=0)]

a. 10

b. 32

c. -16

4. Write the result of the following operations. Assume the numbers are 6-bit *signed-magnitude* numbers. [6]

110001
+ 011101
=====

100000
110111
=====

5. Provide as simple an example as possible of the following laws: [4]

a. Distributive

b. Combining