**Two's Complement Homework**

Remember the basics for two's complement:

- A leading value of 1 means the number is negative
- To find out what the negative number represents…
  - Invert all the bits
  - Add 1

*NOTE: Use 8-bit representations of every number below*

Complete the following in binary

a) $00001110_2 + 00100011_2$ b)$75_{10} + 26_{10}$

Using two's complement

a) $37_{10} - 37_{10}$ b) $55_{10} - 18_{10}$ c) $85_{10} - 65_{10}$

*ex: $37_{10} + (-37_{10})$*

Using two's complement

a) $-14_{10} + 28_{10}$ b) $20_{10} - 36_{10}$ c) $15_{10} - 50_{10}$