

Homework 1-9:

b. +101

a. $-68 = 2^8$ complement of +68

$$68 = 01000100$$

$$10111011 \leftarrow 1^8$$

$$10111100 \leftarrow 2^8 = -68$$

$$b. +101 = 01100101$$

64 32 16 8 4 2 1

Homework 2-1

b. -46 3 2 5

$-46 = 2^8$ complement of 46

$$46 = 00101110$$

$$11010001$$

+1

$$11010010$$

$$2^8 \text{ complement} = 11010010 = -46$$

$$+25 = 00011001$$

$$\begin{array}{r}
 1 \\
 1101 \quad 6010 \\
 + 0001 \quad 1001 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1110 \quad 1011 \\
 \hline
 \end{array}$$