

#2 CS 2340 Tejas Raman

a)

06111001

$$57/2 = 28 h=1$$
 $28/2 = 14 h=0$
 $14/2 = 7 h=0$
 $7/2 = 3 h=1$
 $3/2 = 1 h=1$
 $1/2 = 0 h=1$

11100

b)
$$7098 / 2 = 3549 R = 0$$

 $3549 / 2 = 1774 R = 1$
 $1774 / 2 = 887 R = 0$
 $887 / 2 = 443 R = 1$
 $443 / 2 = 221 R = 1$
 $221 / 2 = 110 R = 1$
 $110 / 2 = 56 R = 0$
 $55 / 2 = 27 R = 1$
 $27 / 2 = 13 R = 1$
 $13 / 2 = 6 R = 0$
 $6 / 2 = 3 R = 0$
 $3/ 2 = 1 R = 0$
 $3/ 2 = 1 R = 1$

+1110 0100 0100 0110 1110 0100 0100 0101

0x E446

E B



6)

06 110 - 1000

8+32+64 = 104

d

0x 187

0001 1011 0111

 $-(2^{\circ}+2^{1}+2^{2}+2^{4}+2^{5}+2^{7}+2^{8})=\overline{[-183)}$

e)

06 0110_ 0011_1000

23 + 24 + 25 + 29 + 210 = 1592

(t)

0x89

1000 - 1001

 $2^{\circ} + 2^{3} - 2^{2} = [-119]$

9

06 1010 0110

2 + 22 + 25 - 27 = -90