

	Q	R
463/2	231	1
231/2	115	1
115/2	57	1
57/2	28	1
28/2	14	0
14/2	7	0
7/2	3	1
3/2	1	1
1/2	0	1

1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

calculate 2's complement

$$\begin{array}{r}
 1111111000110000 \\
 + 1 \\
 \hline
 1111111000110001
 \end{array}
 \quad \downarrow \quad (2 \text{ Bytes}) \text{ (halfword)}$$

B) -463 to hexadecimal:

1111	1110	0011	0001
↓	↓	↓	↓
F	E	3	1

0xFE31

 hex'decimal

86) Convert Binary num [01011001] into hex'decimal and decimal ✓

a)

0101 = 5

hex'decimal =

0x59

1001 = 9

B) convert to decimal:

0 1 0 1 1 0 0 1

2^6 2^4 2^3 2^0

64 + 16 + 8 + 1 =

89

 decimal num

87)

convert the Binary num [10101101] into hex and decimal