Q3) Convert hexidecimal [0x7B4f] to decimal and Binary ✓

a)

$7 = 7 \cdot 16^3 = 28,672$

$B = 11 \cdot 16^2 = 2816$

$4 = 4 \cdot 16^1 = 64$

$f = 15 \cdot 16^0 = 15$

31567 decimal #

B) hex to Binary [0x7B4f]

7 = 0111

B = 1011

4 = 0100

f = 1111

0111 1011 0100 1111 Binary #

3 2 1 0

(half word) 16 - Bits

Section 2

interPret as signed integers

Q4) convert decimal [132] to Binary and hexidecimal ✓

a)

	Q	R
132/2	66	0
66/2	33	0
33/2	16	1
16/2	8	0
8/2	4	0
4/2	2	0
2/2	1	0
1/2	0	1

0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 Binary

sign extension 16 Bit (half word)

B) to hexidecimal [132]

132/16	8	4
8/16	0	8

8 · 16 = 4

0x 8 4 hexidecimal

Q5)

a) Convert decimal [-463] into Binary and hexidecimal ✓

make it Positive successive divide by 2 then Apply 2's compliment.