

1. What hexadecimal number does this binary number represent?

1101 1110 1010 1111 1010 0011 1011_{two}
_____hex

2. What decimal number does the two's complement binary number in question 1 represent?
(please show the steps to determine the decimal number)

3. Add these two binary numbers

0010 1101 1010 1011
+ 0100 0111 1101 0101

4. Using two's complement perform the following arithmetic operation.

356
- 223

5. Using the same binary numbers in question 3, you are to multiply these numbers (use a binary multiplication)

x 0010 1101 1010 0011
0010 0111 1001 1101