How many numbers of colors that we can create if you a 4-bit representation?

The screens that we get for HDR are 10-bit and laptop screen are 8-bit and normal representation of a colour is (256,256,256)

What are the values of TMin, TMax, UMin, UMax when the bit vector length is: 8 Note: C data types on a typical 64-Bit machine.

UMin = 0 = 0

UMax = 2^w - 1 = 255

TMin = -2^w - 1 = -127

TMax = 2^w-1 - 1 = 128

1000 1111

00000010 0011

What is the B2U(4) and B2T(4) for the value (1011)? 8+2+1 = 11

For 2’s complement -[0100] + 1 = -[0101] = -5

What is the numeric value of string for the y = 0000 0000 0000 1111 (Signed) 15

Truncated calue of 0x7FF from 12 bits to 4 bits is OxF