Laboratory Worksheet #02 Logic Exercise

Answer the following questions given:

char a,b,c,d;

$$a = 0x00;$$
 0000 0660

$$b = 0x0F;$$

$$c = 0x09;$$

0000 1111

What is the value of **d** after execution of the following lines?

1)
$$d = a \& c;$$

2)
$$d = b \& c;$$

3)
$$d = b \& 0x04;$$

4)
$$d = b \& 0x33;$$

5)
$$d = b \& !c;$$

Are the following TRUE or FALSE?

What is the value of **d** after execution of the following lines?

9)
$$\mathbf{d} = \mathbf{a} \mid \mathbf{c};$$

10)
$$d = b \mid 0x10;$$

11)
$$\mathbf{d} = \mathbf{b} \mid \mathbf{a};$$

$$12) d = b \mid !a;$$

Convert the following hex numbers to binary:

When complete, include Worksheet 2 with your Laboratory 1-1 Pre-lab submission.