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1.  $11000_2; 10000111_2; 10010111_2$

$$\begin{array}{r} 1101 \\ + 1011 \\ \hline 11000 \end{array}$$

$$\begin{array}{r} 1001100 \\ + 111011 \\ \hline 10000111 \end{array}$$

$$\begin{array}{r} 01011100 \\ + 00111011 \\ \hline 10010111 \end{array}$$

2.  $0100$

$$\begin{array}{r} 01010 \\ - 0110 \\ \hline 0100 \end{array}$$

3.  $19_{(10)}$

16	8	4	2	1	= $19_{(10)}$
1	0	0	1	1	

4.  $10101$

$$\begin{array}{r} 1110 \\ + 0111 \\ \hline 10101 \end{array}$$

5.  ~~$0110$~~   $\rightarrow 0010$

$$\begin{array}{r} \cancel{1001} \quad \cancel{1001} \\ - \cancel{0111} \quad 0111 \\ \hline \cancel{0110} \rightarrow 0010 \end{array}$$

6.  $11001_{(2)}$

32	16	8	4	2	1	= $11001_{(2)}$
0	1	1	0	0	1	



7. 1111

$$\begin{array}{r} 110 \\ + 101 \\ \hline 100 \\ \hline 1111 \end{array}$$

8. ~~0101~~  $\rightarrow$  01101

$$\begin{array}{r} 0 \times \cancel{1} \times \cancel{0} \times \cancel{1} \times \cancel{0} \times \cancel{0} \\ - \cancel{1} \times \cancel{0} \times \cancel{1} \times \cancel{1} \\ \hline \cancel{0} \times \cancel{1} \times \cancel{0} \times \cancel{1} \times \cancel{1} \end{array}$$

$$\begin{array}{r} \overset{2^1}{1} \times \overset{2^0}{1} \times \overset{2^1}{1} \times \overset{2^0}{1} \times \overset{2^1}{1} \times \overset{2^0}{1} \\ - 1011 \\ \hline 01101 \end{array}$$

9. 45<sub>(10)</sub>

32	16	8	4	2	1
1	0	1	1	0	1

 $= 45_{(10)}$

10. 12<sub>(10)</sub>

$$\begin{array}{r} \overset{1}{1}11 \\ + 101 \\ \hline 1100 \end{array}$$

8	4	2	1
1	1	0	0

 $= 12_{(10)}$