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Name: Gabriel Misael Alvarado da Silva

RGM: 43970010

1. 11000; 10000111; 10010111;

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

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

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

2. 0100

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

3. 19<sub>(10)</sub>

16	8	4	2	1
1	0	0	1	1

= 19<sub>(10)</sub>

4. 10101

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

5. ~~0110~~ → 0010

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

6. 11001<sub>(2)</sub>

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

= 11001<sub>(2)</sub>



7. 1111

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

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

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

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

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

 $= 12_{(10)}$