

1.- Convertir 1110111 de base 2 a base 5

$$1110111_2 = 0+2+4+0+16+36+72 = 130_{10}$$

$$130_{10} = X_5$$

$$130/5=26$$

$$26/5=5$$

$$5/5=1$$

$$5/1=0$$

26	0
5	1
1	0
0	1

$$1110111_2 = 130_{10} = 1010_5$$

2.- Convertir 120 en base 3 a base 9

$$120_3 = 0+6+9 = 15_{10}$$

$$15_{10} = X_9$$

$$15/9=1$$

$$1/9=0$$

1	6
0	1

$$120_3 = 15_{10} = 16_9$$

3.- Convertir AAB₁₂ de base 12 a base 2

$$AAB_{12} = 1+132+1440+17280 = 18853_{10}$$

$$18853_{10} = X_2$$

$$18853/2=9426$$

$$9426/2=4713$$

$$4713/2=2356$$

$$2356/2=1178$$

$$1178/2=589$$

$$589/2=294$$

$$294/2=147$$

$$147/2=73$$

$$73/2=36$$

$$36/2=18$$

$$18/2=9$$

$$9/2=4$$

$$4/2=2$$

$$2/2=1$$

$$1/2=0$$

9426	1
4713	0
2356	1
1178	0
589	0
294	1
147	0
73	1
36	1
18	0
9	0
4	1
2	0
1	0
0	1

$$AAB_{12} = 18853_{10} = 100100110100101_2$$