



INSTITUTO TECNOLOGICO NACIONAL DE MEXICO

INSTITUTO TECNOLOGICO DE TLAXIACO

## **OPERACIONES**

ALUMNA: DAFNE ANAHI LOPEZ OJEDA

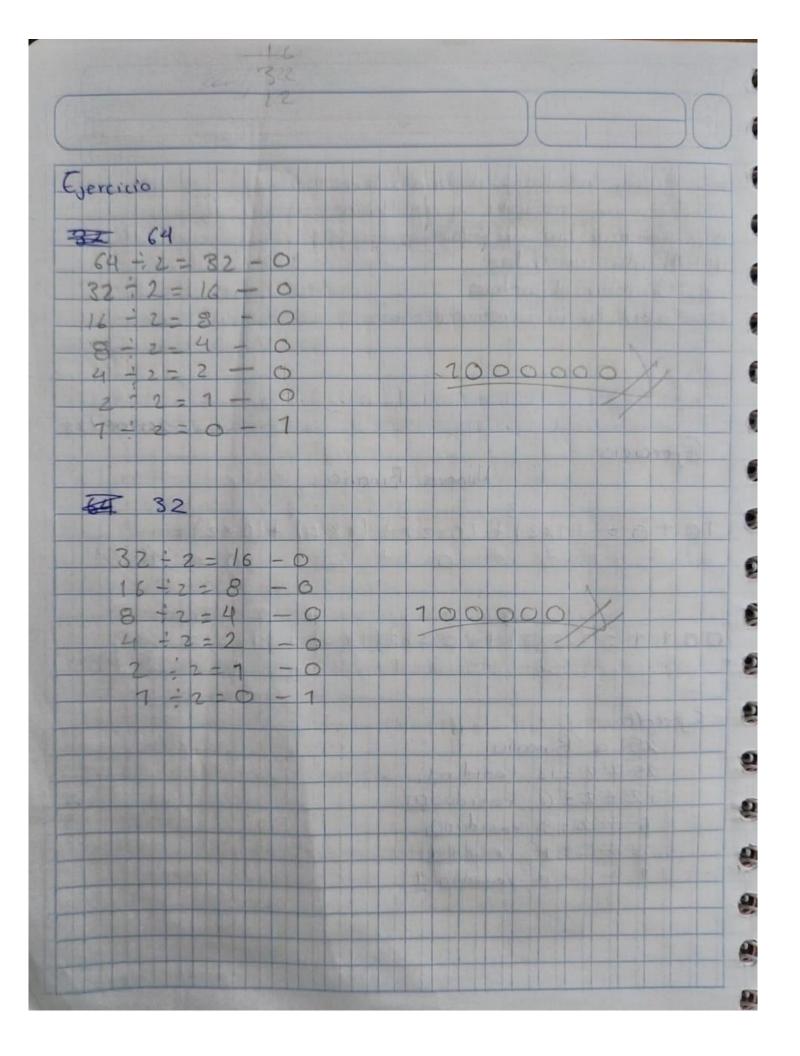
PROFESOR: ING. JOSÉ ALFREDO ROMÁN CRUZ

ASIGNATURA: MATEMÁTICAS DISCRETAS

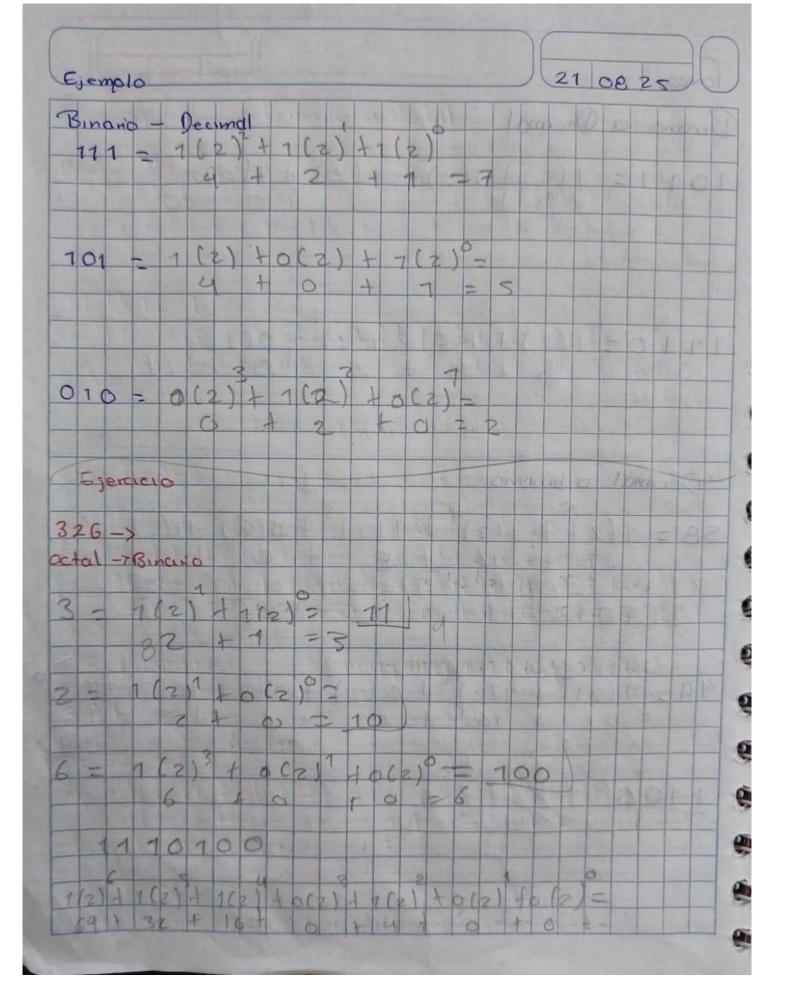
GRUPO: AS

FECHA:30/08/2025. SEMESTRE:1ER SEMESTRE

6 - Anodor los Potos de la practica Realizar una lista de resultados Realizar una conclusión Anadir un indice - Guarday el archivo 11 - Subir la información 20108/25 Ejercicio Numera Binario 10102 (1x2) + (0x2) + (1x2) + (0x2 + (0x2)+ 1 Exemplo 25 a Binario 3 + 2 = 12 residuo1, = 2 = 6, residuo01 3 = 2 = 3 , residuo0, = 2 = 1 , residu 1) 3 = 0, residuo 1 9



Birario a Decimal Decimal a binario 58 = 49=112 16 110601 1

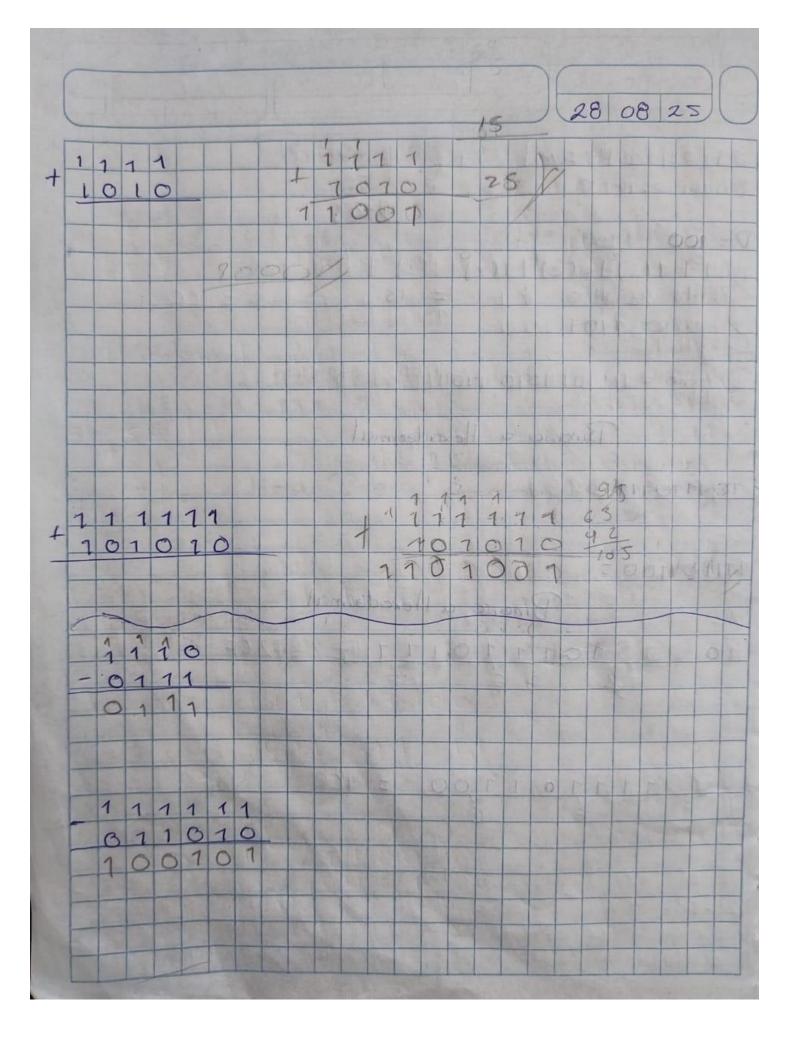


| 3 |  |
|---|--|
| 3 | Ejeraicios   |
| 3 | Octal - Binaria 1-lex > Bin 37F >  |
| 3 | 123-> Binario SAD->  |
| 3 | Binario-Octal 107710111-)  |
|   | 101110100->  |
| - | 1 11107101 -) Octol a Binario  |
| - | 341-   |
| - | 3 - 0(2) + 1(2) + 1(2) - 011   |
|   | $4 = 1(2)^{2} + o(2)^{2} + o(2)^{2} = $ $4 + o + o - 4 = 100$  |
| ) | 1 = 0(2)2 + 0(2) + 1(2)9 =   |
| 3 | 011(3) + 100(4) + 001(1) = 011100001 kg  |
| 3 | 123  |
| 3 | 1-0(2)+0(2)+1(2)=0+0+1=1 -001  |
| 3 | $\frac{2}{3} = 0(2)^{2} + 1(2)^{1} + 1(2)^{2} = 0 + 2 + 0 + 2 + 0 + 0$ $\frac{3}{3} = 0(2)^{2} + 1(2)^{1} + 1(2)^{2} = 0 + 2 + 1 + 3 = 0 + 1$ $001(1) + 010(2) + 011(3) = 011010011$ |
| 1 |  |

S

Binario a Octal 101110100= 1(2)+0(2)+1(2)+1(2) +1(2)+0(2 32 256 372 111101101= 1(2)91(2)+1(2)+1(2)+0(2)+1(2)+1(2)+1(2) 256 + 128 + 641 + 32 493 Hexa - Binario F= 152 3 FF 3-0(2)+102)+1(2)=0+2+1= F = 00274 + 10213 + 10212 14 10217 + 10219 4401-211 7152 F = 11111C 011 1111 1111 SAO 5 = 9(2)2+02)119(2) 4 + 032 + 11 = 5 101 Pincerios 14 solar A=3: 1010 1(2111062) 4 1(2) +0(2) = 8+0+2

0(2)16(2)11(2) Binano 2, 7010 D=13 1107 D-10213+1(2)2+0(2)+1(2) 11212 8 + 4 + 0 + 1 13 BINONO = 7707 Binario = 11 701 1010 7701 Binario a Hexadecimal 101110111 111101100 = Binario a Hexodermal 001011101111 - 2EF 3 3 00011110,1100, 1EC -



|        |      |    |     |    | 1   | ex  | a           | le  | cıı  | mo  | 1            | E    |     |     |      | 1    |     |     |     |     |
|--------|------|----|-----|----|-----|-----|-------------|-----|------|-----|--------------|------|-----|-----|------|------|-----|-----|-----|-----|
|        |      |    |     | D  | 19" | tos | E.          | 2,1 | , 2, | 3,4 | ,5,          | 6,7  | 8,  | 9   | A.T  | 3,0  | ,0  | 1,2 | , F | 3   |
| FF     |      |    |     |    |     |     |             | 15  |      |     |              |      | -   | 15  | 5 8  | 310  | bio | Thy | E S | 1   |
| + B S  |      |    |     | 1  | 1   |     |             | 15  | 200  | 1   | -            |      | S = | 7   | 30   | P    |     |     |     | ľ   |
| 14 -   |      |    |     | -1 | 6   |     | -           | 200 |      | 0   | 1            | T.   | 0   | 1   | 15   | 0    |     |     |     |     |
|        |      |    |     |    | 6   |     |             | L   |      | 1   |              | 1    |     |     | DE S | - 11 |     |     |     |     |
|        |      |    |     | 1  | 4   |     |             |     |      |     |              |      |     | 1   |      |      |     |     |     |     |
|        |      |    |     |    |     |     |             |     |      |     |              |      |     | -   |      | -    |     |     |     | 100 |
|        |      |    |     |    |     |     |             | +   | 1    | 5   |              |      | -   | (-) |      | 100  |     |     | 1   |     |
| +5 F   |      |    |     | 8  |     |     |             | -   | 7 2  | 15  | 1            | 0    | 1   | 13  | 0    | 0    |     |     |     |     |
| 79     |      |    |     |    |     |     |             | _   | 1    | 6   |              |      | 18  |     |      |      |     |     |     |     |
|        |      |    |     |    |     |     |             |     | 0    | 9   |              |      |     |     |      |      |     |     |     |     |
|        |      |    |     |    |     |     |             |     |      |     |              |      |     |     |      |      |     |     |     |     |
|        |      |    | -   | 6  | )   |     | 100         | 19  |      | 7   | 7            |      |     |     |      |      |     |     |     |     |
|        |      |    | 100 | V  | les | oto | The same of | 1   | File | 4   | The state of | - 30 |     |     | 22   |      |     |     |     |     |
| peraci | ones |    |     |    |     |     |             |     |      |     | 1            |      |     |     |      |      | 12  | 0   |     |     |
|        |      |    |     |    |     |     |             |     | 1    |     |              |      |     |     |      |      | 3   | 8   | 1   |     |
|        | 1    | 1  | 1   | 1  | 0   |     |             | 1   |      | 0   |              |      |     |     |      |      |     |     |     |     |
|        | ++   | 1  | _   | 1  | 0   | 1   | 1           | 0   | 1    | 1   |              |      |     |     |      |      |     |     |     | -   |
|        |      | -  | 0   | 0  |     | 0   | 0           |     | O    |     |              |      |     | -   |      |      |     |     |     |     |
|        |      |    |     |    |     |     |             |     |      |     |              |      |     |     |      |      | 2   | 1   |     |     |
|        |      |    | 1   |    |     |     | -           |     |      |     |              |      | 1/4 |     |      |      | 1   | 1   |     |     |
|        | -    | 11 | 0   |    | 1   |     | 01          | 0   |      |     |              |      |     |     |      |      |     |     |     |     |
|        | -    | 00 | 70  | 1  | 0   | 1   | 01          | 1   |      |     |              |      |     | -   | -    |      |     |     |     |     |

| 9  | 0  | -   | 1    |                       | 18  | A S    |    |        | -    |       | 48   | -     |     | 1  | (0)  |     |    |       |   |    |    |     |      | _  |
|----|----|-----|------|-----------------------|-----|--------|----|--------|------|-------|------|-------|-----|----|------|-----|----|-------|---|----|----|-----|------|----|
| H  | Co | -tc | -    |                       | 251 |        |    | F      | 100  |       | 1    | -     | -   |    |      |     | 53 | 2     |   |    | 7  | 174 | 1    |    |
|    |    |     |      | 6                     | 4   |        |    | 2      |      |       |      |       | 5   | 7  | 146  | 18  | 0  |       |   | 2  | 0  |     |      |    |
| -  |    |     |      | 3                     |     |        |    | 0      | 2    |       |      |       | 1   | 2  |      | 1   |    |       |   | 2  | 8  |     |      |    |
| -  |    |     |      | 3                     | 2   |        |    |        |      |       | -    | -     | 4   | 5  |      |     |    |       |   | 47 | +  |     |      |    |
|    |    |     |      |                       | -   |        |    |        |      |       |      |       |     |    |      |     |    |       |   |    |    |     |      |    |
| 18 | H  | CXC | ad   | eci                   | mo  | 1      | E, |        | 0.0  | 10    | 2    | 1     | 1   | 20 | 46   | 9   |    | 1,    | E | 15 | A  | -1  | OB   | 27 |
| 21 |    | -   |      |                       |     |        |    | 1      |      | E     |      | 1.551 |     |    | 15 - | 193 | 18 |       | - |    |    |     |      |    |
| 0  |    | A   | EL   | -                     |     | F<br>5 |    |        |      |       |      | 75    |     |    | 100  | F   |    |       | - | -7 | 2  | 15  | - 10 | =  |
|    |    | -   | -    | The State of the last | B   |        |    |        |      | 01    |      | 10    | 100 | -  | 3    | A   |    |       | 7 | 7  | 4  |     |      |    |
| 6  |    | 1   | -0   |                       |     |        | 0  | Mary - | 118  | 1     |      |       |     |    | 2    |     |    |       |   | 1  |    |     |      |    |
| F= | 15 | -5  | = 10 | _                     | F:  | 15     | -7 | 1=     | 4    |       |      |       |     |    |      | 3   |    |       |   |    |    |     |      | 1  |
| 11 |    |     |      | 1                     |     | -      | -  | -      |      | -     |      | -     | -   |    |      |     |    | 1     |   |    |    |     |      |    |
|    |    |     |      |                       | 1   |        | Mi | ال     | loji | ıcc   | ICIC | N     | 0   |    |      |     |    |       |   |    |    |     |      |    |
|    |    |     |      |                       | ×   | 1      | 1  | 1      | 0    | 1     | 1    | 1     | 0   | 0  |      |     |    |       |   |    |    |     |      |    |
|    |    |     | 12   |                       |     | 0      |    |        |      |       |      |       | 1   |    |      | 1   |    |       |   | T  | 10 | 1   |      |    |
|    |    |     |      |                       |     | 0      | 1  | 1      | 0    | 1     | 1    | 0     | 3   | 0  | No.  |     | +  | - 00  |   | A  | 2  |     |      |    |
|    |    |     |      | 1                     |     |        |    |        |      |       |      |       |     |    |      | 1   |    |       |   |    |    |     |      |    |
|    |    |     |      |                       | X   | 1      | 1  | 0      | 0    | 7     | 1    | 0     | 0   | -  | - 10 |     |    |       |   |    |    |     |      |    |
|    |    |     | 1    | -                     |     |        | 0  | 1      | 1    | 0     | 1    | 6     | 1   |    |      |     |    |       |   |    |    |     |      |    |
|    |    |     | -    | 1                     |     | 0      | 0  | 0      | 0    | 0     | -    | 0     | 0   |    |      |     |    |       |   |    |    |     |      |    |
|    |    |     |      |                       |     |        |    |        |      |       |      |       |     | -  |      |     |    |       |   |    |    |     |      |    |
|    |    |     |      |                       |     |        |    |        |      |       |      |       |     |    |      |     |    |       |   |    |    |     |      |    |
|    |    |     |      |                       | 1   | -      |    |        |      | 10-11 |      |       |     |    | 1    |     |    | 19 14 |   |    |    |     |      |    |

|     |     |             |    | - 13   |     | 1   |    |      |      |     |      |      |      |          |     |     | E  |     |     |        |     | )   |     | -          |
|-----|-----|-------------|----|--------|-----|-----|----|------|------|-----|------|------|------|----------|-----|-----|----|-----|-----|--------|-----|-----|-----|------------|
| 0   | to  | 1           |    |        |     |     | E  | 0,   | 7,   | 2,3 | 14   | ,5,  | 6,   | 3        |     |     | 7  | X   | = 1 | 4      | 16  | 16  |     |            |
| -   | -   | •           | -  |        | 5   | ×3  |    | 2    |      |     |      | 1    | X    | 5        |     | 1   | 1  | 3 1 | 14. | 8      | = 6 | 1   |     |            |
|     | ×   |             | 2  |        |     | 12  | -8 | =4   | F    | 1   |      | +    | +    | 1 5      | 2   | _   |    | 13  |     | 1      | +   | -   | -   |            |
| 1   |     | 4           | 4  |        |     | - 3 |    |      | -    | LE  |      |      |      | -        |     |     |    | 1   | 1   |        |     |     |     |            |
|     |     |             |    |        |     |     |    |      |      |     |      |      |      |          |     |     |    |     |     |        |     |     |     |            |
| 1   | -   |             | 1  |        | 7   |     | 0  | - 1  |      | 3   |      |      |      | -        | -   |     |    |     |     |        | -   | 1   |     |            |
| +   | ex  | ad          | ec | mc     | 41  | 4   | D  | 1911 | 08   | 20  | 7,1, | 2,3  | 1,4, | \$,6     | 7,  | 8,0 | A  | 13  | 100 | DIE    | F   | 7   |     |            |
| 90  | 31  |             |    |        |     | x l | 51 | F    |      | T   | XI   | 3 =  |      |          |     |     | 1  |     | F   | 15     | 5 1 | 4   | 10  | The second |
|     |     | X           | F  | F      |     | 7   | 5  | 3    | -    |     | XT   | 1=   | 16   | 5        |     |     |    | 100 |     | 13     | 3 = | 77  |     |            |
|     |     |             | B  | 5<br>B | _   | -15 | 9  | 6    | 3    |     |      |      |      |          | _   |     |    |     |     |        |     | 300 |     |            |
| X   | 8 - |             | 2  | D      |     | 100 | 13 | 9    |      |     | a    | ur   | n    | m        | PYC | de  | nt | ro  | de  | 103    | ali | get | 2.5 |            |
| 9   |     |             |    |        | ,   |     | 76 | 6    | -    |     | 7    | 13   | 7    |          |     |     |    |     |     |        |     |     |     | l          |
|     |     |             |    |        |     | 1   | 1) | =8   |      |     | N    | 2/2  | 201  | 10       | 41  | 14  |    |     |     |        |     |     |     |            |
|     |     |             |    | -      |     |     | 13 | 7    |      |     | 1    | 15   |      | the same | -   |     |    |     |     |        |     |     |     |            |
|     | 5   | 5           | F  |        |     | T   | X  | 46   | 1    | 1   |      | 1    | 1    | 0        | 1   | T   | 0  | 7.  |     | Page 1 |     |     |     |            |
|     | ^   | 5<br>2<br>A | A  |        |     |     |    | 10   | = 15 | 50  |      | - 10 |      |          |     |     | 0  |     |     |        |     |     |     |            |
| 100 |     | A           | 6  |        |     |     |    | +    | -    | 5   |      |      |      |          |     |     |    |     |     |        |     |     |     | 13         |
|     |     |             |    |        |     | 9   |    | 2=   | 10   | 3   | 1    | 100  | -    | 0        | 0   | -   | P  |     |     |        |     |     | -   | 100        |
|     |     |             |    |        |     |     |    |      | 10   | 1   | 0    | 1    | 0    | 1        | 1   | 0   | 0  | ×   |     |        |     |     |     |            |
|     | 120 |             |    |        |     |     | -  |      |      | 0   | 0    |      | 0    |          | 1   | 2   | 60 |     |     |        |     |     |     |            |
|     |     |             |    |        |     |     | 44 |      |      |     |      |      |      |          |     |     |    |     | -   | -      |     | -   | -   |            |
|     | 1   |             |    |        |     |     | 43 | 4    |      |     |      |      | -    |          |     |     |    |     |     | 1      |     |     |     | 1          |
|     |     | 1           |    |        | E I |     |    | -    |      |     |      |      |      |          |     |     |    |     |     |        |     |     |     | 7          |
|     |     | -           |    |        |     |     |    |      |      |     | 1    |      |      |          |     |     |    |     |     |        |     |     |     | 6          |

