1)
$$X_1 \leftarrow 2 \cap [\ell+1]$$

 $X_2 \leftarrow \cap [\ell+1]$
 $X_{10} \leftarrow 2 \cap [\ell+1]$
 $X_{10} \leftarrow 2 \cap [\ell+1] + \cap [\ell]$
 $X_2 \leftarrow \cap [\ell+1] + \cap [\ell]$
 $B[g+2] \leftarrow \cap [\ell+1] + \cap [\ell]$

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3. a)
$$(100010101010011000)_2 = (120222120)_4 = (305230)_8 = (18098)_{14}$$

b)
$$+37 = 32 + 24 + 1 \Rightarrow 0.0100101$$

1's complement 1101/1010
2's complement 11011011

SM.
$$2^2 + 2^3 + 2^5 = 4 + 8 + 32 = 44$$
 SM $\Rightarrow -44$

15 Complement
$$\Rightarrow$$
 01010011 \rightarrow 2°+2'+2⁴+2⁶=1+2+16+64=83

is complement
$$\Rightarrow$$
 -83

2's complement
$$\implies$$
 01010100 \implies 2²+2⁴+2⁶=64+16+4=84

2's complement \implies 84

$$4) + 14 = 8 + 4 + 2 \longrightarrow 001110$$

$$+ 18 = 16 + 2 \longrightarrow 010010$$

$$8.M - 14 \longrightarrow 10010$$

$$\times 100000 \xrightarrow{\text{torough}} 0 \Longrightarrow \text{This is not correct!}$$

$$13 \text{ complement:} \qquad 110001$$

$$+ 101110 \text{ not correct!}$$

$$3.8 \text{ is zaro!} \quad \text{The result of adding two negative numbers}$$

$$13 \text{ is possible!}$$

$$2's \text{ Complement:} \qquad 110010$$

$$+ 101110$$

$$\times 100000 \xrightarrow{\text{two complement}} \qquad 32$$

$$= \text{carcet result}$$

$$page (3)$$

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