Ch.6 4,7,11,15,20,21,23,29,34,45

$$\Sigma := (A \oplus B) \oplus C$$
 $Cove = AB + (A \oplus B) Cin$
 $= (1 \oplus 1) \oplus C$ $= (1)(1)+(1 \oplus 1)(0)$
 $= 0 \oplus 0$ $= 1+0$

@ A=1 B=0 Cin=1

$$\Sigma_{z}$$
=(A\theta\beta) \theta Cin
= (1\theta) \theta 1
= |\Phi|

A= | B= | Cin= |

(4)
$$\Sigma_{A} = AB + (A \circ B)Cin$$

= 1 + (0) 1

5,5,5,2, = 1100

7. A= 1001 B= 1100=> 0011

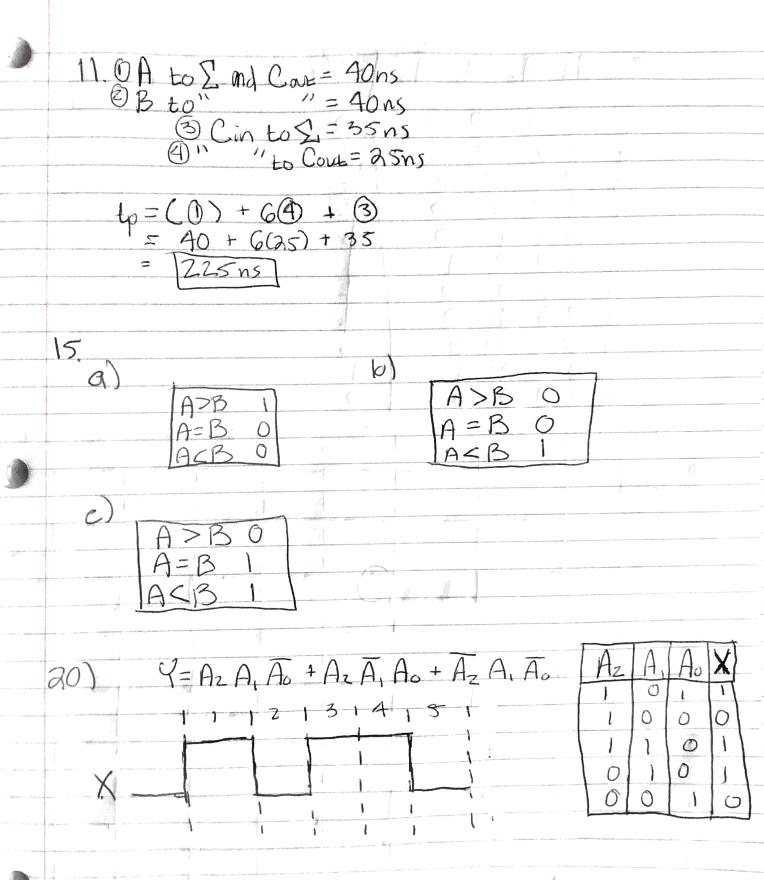
A=1 B=1 Cin=1

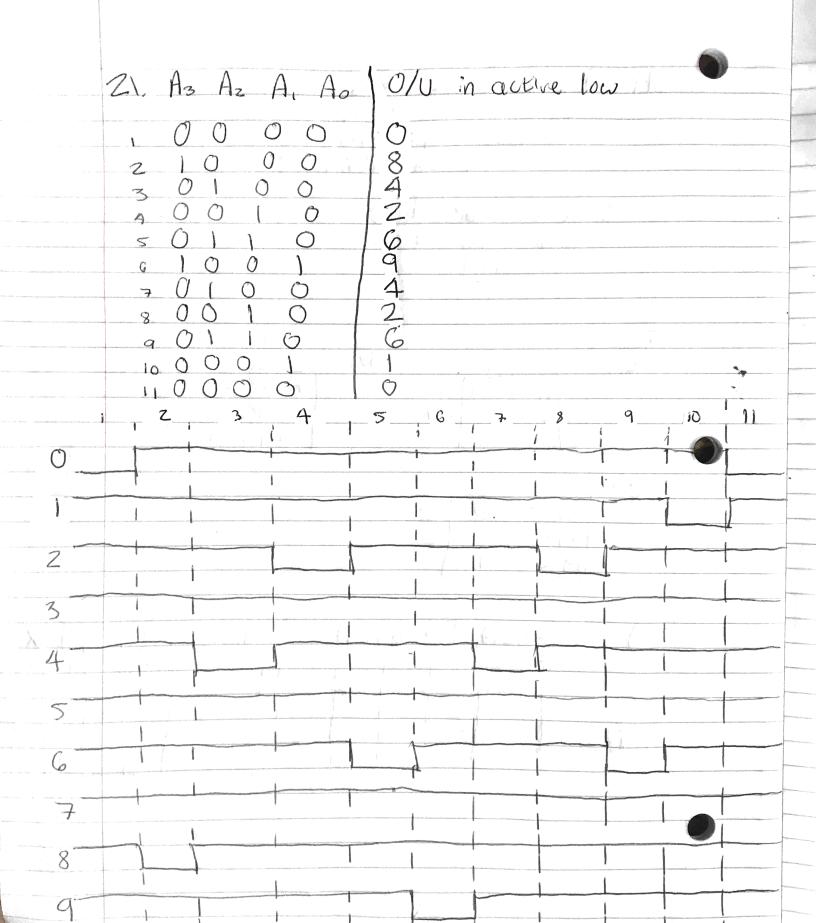
$$X_1 = (A \otimes B) \otimes C_{in}$$
 Cour = AB+ (A \omega B) Cin

= (1 \omega 1) \omega 1 = 1+ (D) Cin

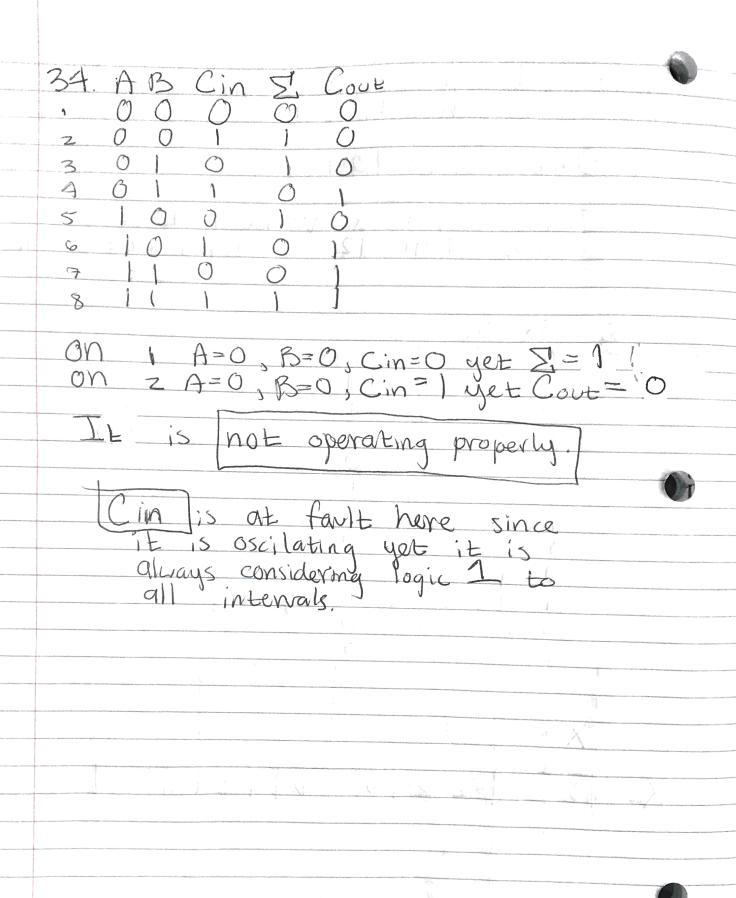
= 0 \omega 1 = 1

\[
\begin{align*}





33. 9=High = A0 & A3 are 1 3=High = A1 is 1 Output Code: 1011 This is not a valid BCD code since 1011=12 and its not 0-9. $29, \frac{5}{0}, \frac{5}{0}, \frac{5}{0}, \frac{5}{0} = 0$



AS. ABCin + ABCin + ABCin + ABCin = Z ABCin + ABCin + ABCin + ABCin = Cout

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Cout = A Cin + BCin + AB

