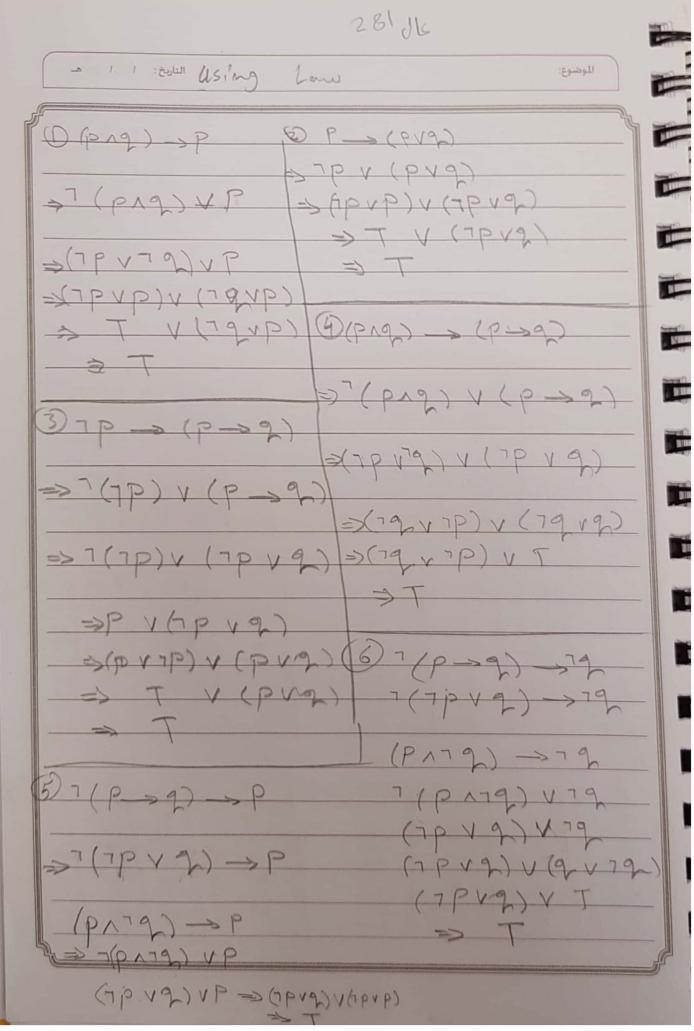


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الناريخ: ١ ١ هـ
3) show that P, g and (PAD) Y (TPATQ)
3) show that pegand (pra) x (TPATA)  re logically equivalent

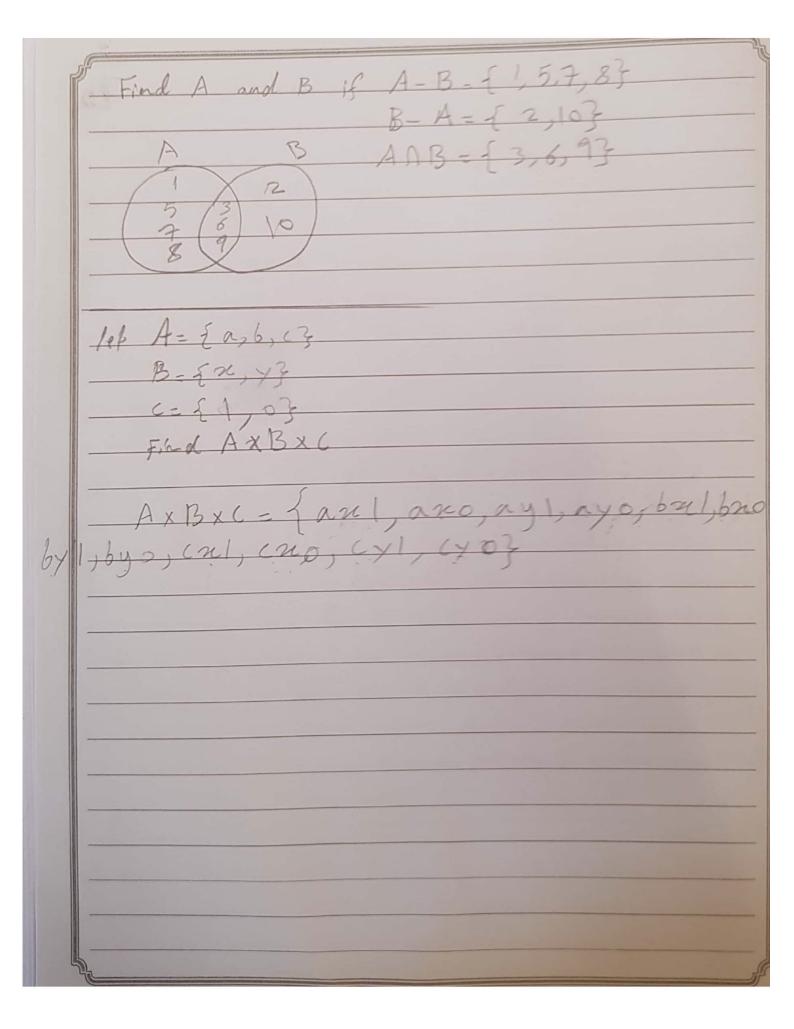
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181	et p(2) be" n spends more than 5 hours every wekday in class", where he domain of n
is	Inp(n), 6 Anp(n), O In Ip(n), O Hn Ip(
101	Hure is Exist a studen who spends there hours every weekday in class.
6	every students.
9	there a student that doesn't spend
<u> </u>	every student doesn't spends
25	p(n) be" ne speaks Russian", Q(n) be" ne know repress, using fundifaction and logical Quant ) there is estadant who speak Russian and k  Fr [p(n) 1 Q(n)]

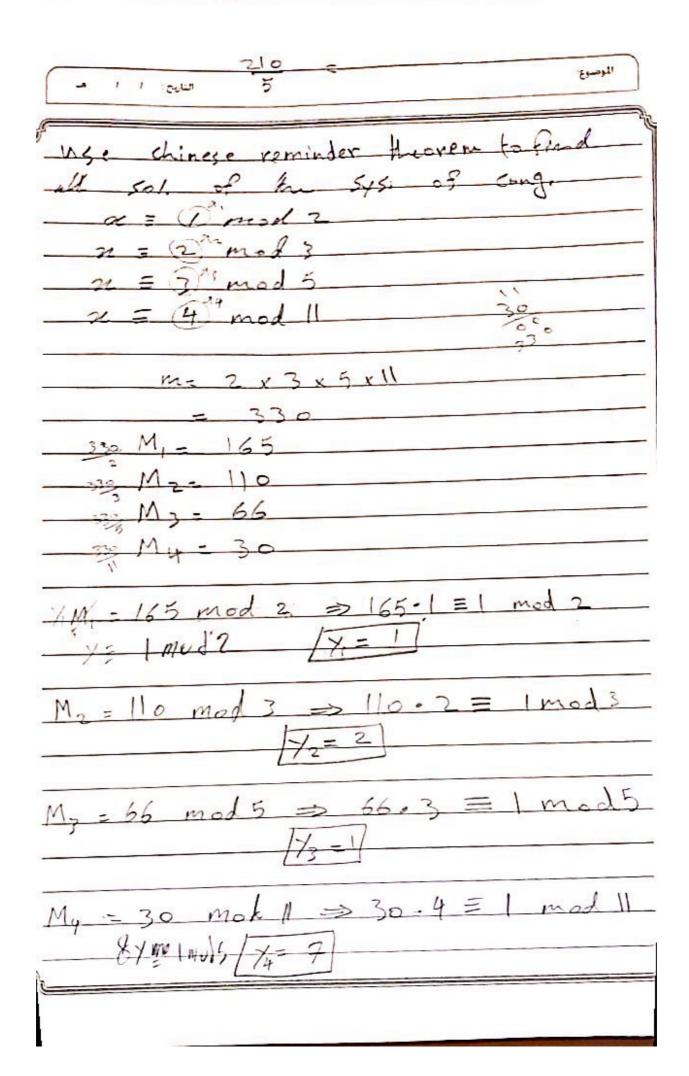
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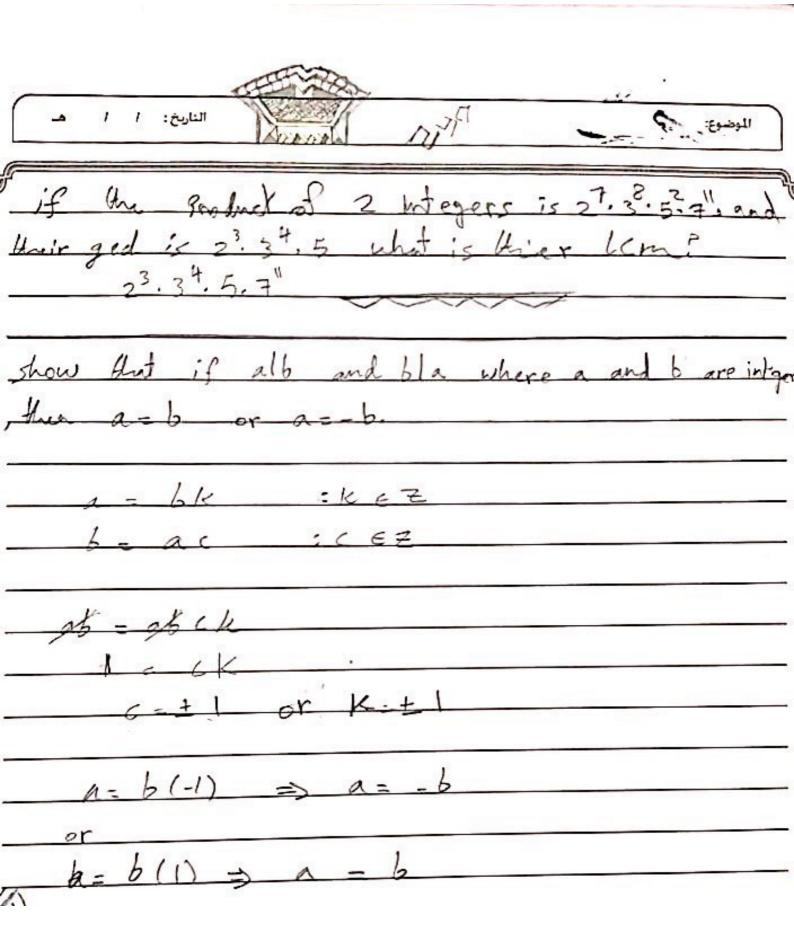
الموضوع:
1 but does it know c++
$\exists n [P(n) \land \neg Q(n)]$
O Free al 1 1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1
O Every student either speaks Russian or Knows
2++
- An [p(n) vain)]
DNO 11 11 Knows 11 and 11
- 4 2x [7p(n) 1 7 Q(n)]
let p(26, y) be " student ze has taken class y"
pomente of se is all student in the class
and domain of y consists of all CS courses.
Enpress in quantifaction and logical connectives
@ Frist a student ruho has taken course y
6) Every students has taken at least one course
7.
) ]n ]y p (2i, y)
b) +x 3 y p(n,y)
The state of the s

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find ged (3000, 197) using Eculid's Algorith
3000,197 = 1
(200,197) = [15] -x 197+ [45]
(197,45) = 4 x 45 + 17
45,17) = 2 x 17 + 11
(17,11) =  x 1+6
$(11.6) = 1 \times 6 + 5$
$(6,5) = 1 \times 5 + 11 -> (5,1) = 5 \times 1 + 0$
1ii) ged (270,192) = 6
W.T.
270,192   x192+78
(192,78) = 2 x 78 + 36
(78,36)=2 × 36 + 6
36.6) -6 × 36 +0
W <sub>2</sub>

الناريخ: ١ ١ ك	الموضوع:
Determine these function	- fore Zto Z are one to on
$ \begin{array}{c} (1) & f(n) = n^{2} \\ (2) & f(n) = n^{2} \\ (3) & f(n) = (n) \\ (4) & f(n)^{2} = n - 1 \end{array} $	@ an- a, + (n-1)d 
f(n)=#n-1	
@ n=f3(n) -f(n)=3/n -1-1	10- 3.2 <sup>n-1</sup> K1 1 2 3 4  3 <sup>k</sup> 3 6 12 24
3 not 1-1  ause D 2  - 1 2 - 1	
For each 1/4 on 72 1 0 3, 6, 12, 24,	Provide a formula rule

