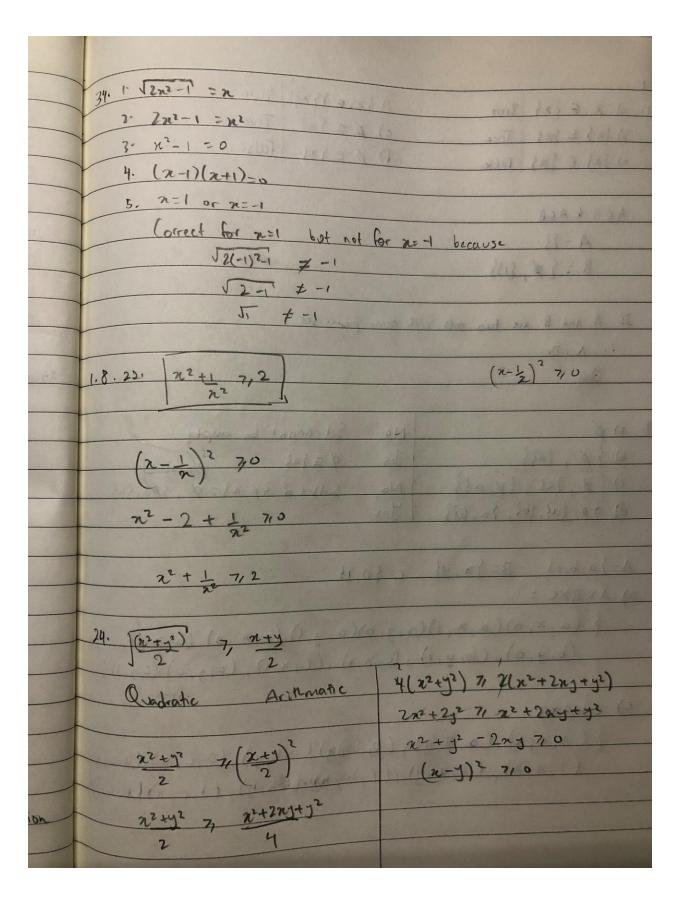
146				
1. (PAL) -> (rvs)	Premise 11. p. P.			
x q -> (unt)	Premise P ₂ P ₁			
3/ 4 >P	Premise			
4, 75	Premise Pn Pn			
8. 9	Premise : 7-5r r			
, ,	Modus ponens 2,5			
	Simplification 6.			
8. p Modus ponens 3,7				
9. 4	Simplification b.			
Lo. prt	Conjunction			
	Modus ponens 1,10			
	Disjunctive syllogism 4, 11			
The state of the s				
14. D) Modus ponens.				
18. Fas(2,20) cannot be true because a cannot be shorter than				
himself.				
24. 3. P(c) { Cannot be simplification because 2. P(c) v Q(c) is				
5. Q(c)) a disjunction (V)				
A STORY OF THE PROPERTY OF THE				
29. t. Vn(P(n) VO(n)) Premise				
2. 4n(7Q(2) VS(2)) Premse				
2 V. (Pla) - 22 - 1				
4. In 7 P(n) Premise				
	1 Lewise			
	The state of the s			

12, 7R(i)	l le ni	Disjunctive Universal Disjunctive Universal Universal Loginal e Disjunctive	Instantiation 4. Syllogism 5.6. instantiation 2 syllogism 7.8. nstantiation 3: quivalence 10: syllogism 11: general: zation 12
34a) 1. p v 7 q 2 r -> 7 p 3. 7 r v 7 p 4. 7 (r n p) 5. 7 p v 7 r 6. p -> 7 r 7. 7 q v 7 r 8. q -> 7 r	Premise Premise Logical eg De Mon Commute Logical e	C 48 35 31	p: Lagre is difficult q: Students like logic r: Mathematics is easy a). q. > 71
		(S)	

1.7
7. Every odd integer is the difference of two squares.
If a is an odd number x=2y+1
If n is an even number x = 24
x = 2y + 1
$a = 2y + 1 + (y^2 - y^2)$ from $(a+b)^2 = a^2 + b^2 + 2ab$
2 = (y+1)2 - y2
in is the difference of the square of two integers
S A ASAGE ESPAINS SERVICE SERV
8. If n is a perfect square, then n+2 is not a perfect square.
let abe a perfect square so as n=y2
:. h=y2 -0
and all desired in the second to the second
let n+2 be a perfect square
$n+2=\pm^2-0$
Replace (D. 6)
Replace 1 in 1
y2+2 = Z2
$2 = z^2 - y^2$ from $a^2 - b^2 = (a - b)(a + b)$
2=(z-y)(z+y)
2 - 1 6
Z-y=1 -3
Zty = 2 - (1)
Add 3) and (0) 22 = 3
7 - 3/2
Z is supposed to be an integer if it was a perfect
Square o tete & is not an integer thurfore H.
that n+2 is a perfect square is incorrect.



2-1				
11. c) 2 € {23 True d) {21 € [[2]] True				
b) [n] = [n] True e) \$ = [n] True				
e) Sal E (n) false f) p E (n) false.				
IX' ACRIANA				
W' AEBKACB				
A : \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
B = { \$, {13}}				
77. 70 4				
27. If A and B are two sets with same power sex				
- A = B.				
- Jos				
24. a) of No. Set cannot be empty				
b) { p, [a]} Jes q = {a} prisons.				
0) { \$, [a] , {\$\pi\$, a}} No Subject of {\$\pi\$, a} = \$\pi\$, {\$\pi\$, {\pi}\$, {\pi}				
d) 40, (a3, 26), (a, 6)? Yes.				
32. A= \a,b,c\ B= \n,y\ c= \{0,1\}				
a) AXBXC:				
{ (a, 2, 0) (a, 2, 1) (a, y, 0) (a, y, 1), (b, 2, 0), (b, 2, 1),				
(b, y, 0), (b, y, 1), (c, x, 0), (c, x, 1), (c, y, 0), (c, y, 1)}				
(31) (219) (210,0), (2,0), (2,0), (2,0), (3,0)				
C) CXAXB				
{(o,a,n),(o,a,y),(o,b,n),(o,b,y),(o,c,n),(o,c,y),				
(1,a,x), (1,a,y), (1,b,x), (1,b,y), (1,c,x) (1,c,y)				
The same of the sa				