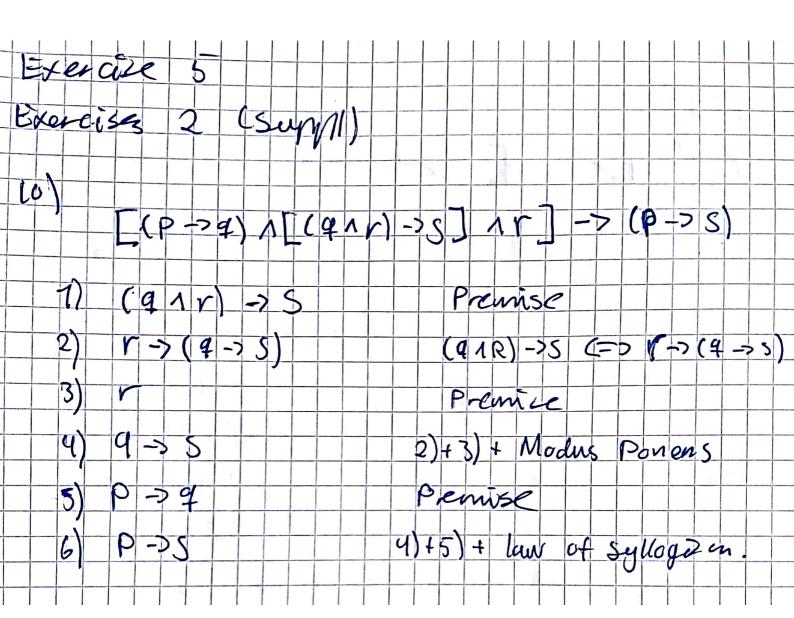
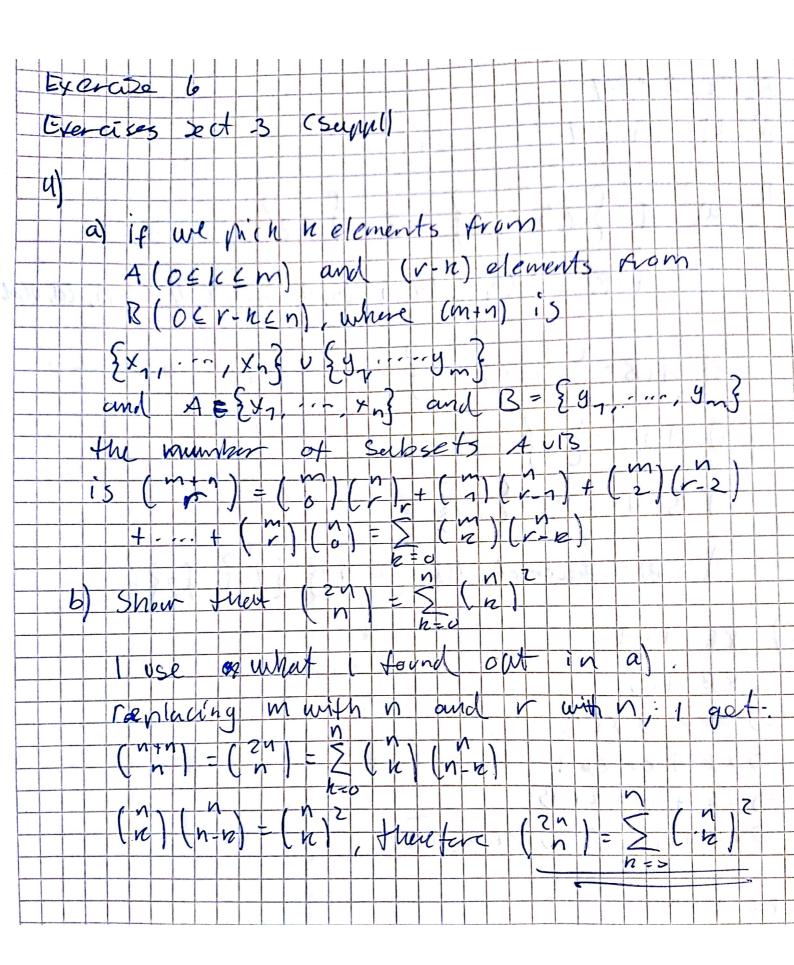
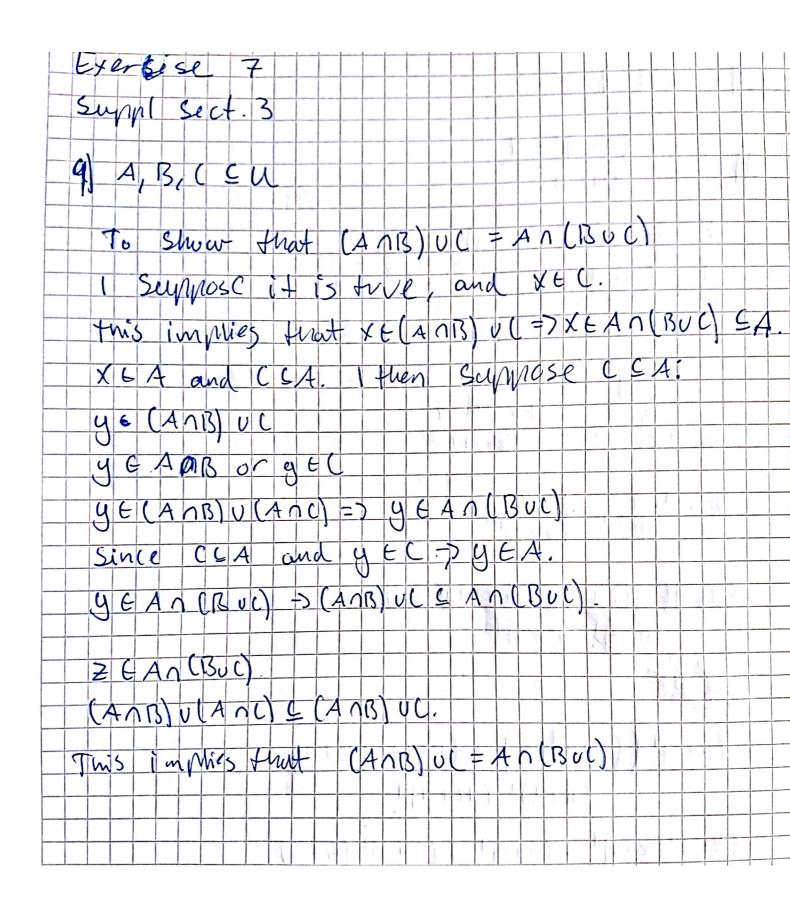
Homework	Set 9	Sander	andley	
Exercise 7 Exactes 1 (s				
Cracices 1 (s	ernl)			San Control
16				
	\$			
b) $\left(\frac{\times}{2} + y\right)$	-32)			
(3+5-	1 2.			
5	) = (5)	= 21		
		01/3		
() (1/2+1-3	5 - (- 2)	243		
		100 1 100 1	4 4 4 4	
Exercise 2		P(dAM JE'B	3 2 1 1 2 1 2 1	
Exercises 18				
	<i> </i>			
6) ×1+×2+×3 €	(3+10		42	
± ×1+×2+×3 ≤			10	
x4+x5 415.				
xy+x5 +x6 = 1	5-K, X4,	K5, X4 70	, 1566	
(3+15-K-1) = (5-K)	= (17-K)			
		K \ 1 2+2 \		
Total number	= \( \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 1/3 - \\ 1/5 - \end{array} \]	(k)		

Lyercise	3				
Exercises			1 1 -0		
From x=		Cure Ca	n go 4	luri zawłal	unves
From y= 3		1 1 1 1 1	are 7 va	them but	oues.
we can	recurrenge 4	um 14	41.71	rays.	
(11!) = (4+7)!			9.4		
(41) - Hon'z	antal		A 75		
(7!) = verti	cal.		Ry Pall V.		
*\ \frac{1}{2}		(i)		11 1 13.	
Now we				11/4/	
Since the					1 curl
one up,	we can	get te	(5, 9)	wit 0,	7,2,3 or 4
1 1 2 2				die	agunals.
0: 11:					
्राधा न					
10'	1 / 4	(11-1)!	( = 2	241	
1: 7:6;	3!	i! (7-i)! (a	1-0)! - 7		
91	0:1)				
2: 9.	2!				
8!					
3, 3,41	7,				
7:				4 4	
4: 41316	oi, V				- P

Xerci	4			
	125 2	(Sum)		
7) a)	(TPH	14) 1(FOVP)	10	
3	(7Pv-	(EVP)	10	
		HELP THE	SCHOOL	an-
		74) 1 P1P	-> Identity	
	CIPYT	q) 1 P		ut law.
	(P171	) v (P179)	-> Distrib	whe law.
	F <sub>o</sub> v	(P179)	-> liwerse	Law
	(P1	19)	-> Identity	Law.
	•			1 1 1







Exercice 8.
Exercice 8. Suppl. sect 4
(n+1)! - 7 (n+1)! - 1
Basis Step (u = 1)
$\frac{1}{2!} \frac{(1+1)!}{(1+1)!} = \frac{2!}{2!} = \frac{7!}{7!}$
assuming it holds for n= h and then n= 4+7.
$\frac{h+1}{(b+2)!} - \frac{1}{(b+2)!}$
n (542)! (kf7)!
$\frac{(\kappa+1)-1}{(\kappa+2)!}$
Charles Designation of the Charles o
Charles and the charles and th
2kisting
= (n+1)! ((k+1)!+1) + (k+1)! (n+1) $= (k+2)! (k+1)! (n+1)!$
= (k+2)!(k+1)! - (k+2)! + (k+1)!(k+1) $= (k+2)!(k+1)! + (k+1)!(k+1)!(k+1)!$
= (k+2)! (k+1)! - (k+2) (k+1)! + (k+1)! (k+1)
(k+2)! (k+1)!
= (n+1)! ((k+2)! - (k+2) + (k+1)) (1C+2)! - 7
(n+1)! (n+1)! (n+2)!
7.E.D.
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