	Exam 1 Review (Ch.1,2,3)
1	U= \$1,2,3,4,5,6,7,8,97
1)	A = 71,3,4,5 ?
	B= \2,4,6,7 }
	find: a) An B' b)(AUB)'
	c) A'UB'
	d) n(AUB')
2)	If today is not sunny, then I will go to the movies.
	Write the:
	a) converse
	b) contrapositive
	c) inverse
	d) negation
3	Determine whether the following compound statement
	is a tautology, self-controduction or neither.
	(p-1q) 1 (ng (-1-p)
	7
4	Is the following agrument valid or invalid?
	np 7 g
	ng
5)	True or False
)	a) {2 { 6 { 1, 2,3 { } } } d) { { 6 { 1,2 { } } }
	, ()
	c) { { c { } { } { } { } { } { } { } { } {

- 6) A = \ 1,2,3,4 }
 - a) find n(A) =
 - b) number of subsets
 - c) number of proper subsets
- 1) Are the sets equal, equivalent or neither a) $A = \{1, 2\}$ $B = \{0, 1, 0, 1, 0\}$

 - b) A= 31,1,1, B= \$14
 - C) A = 30, b, c & B = 30, 1, 0, 1, 1 }
- 8) Let N= {x | x e natural #1's, 9< x < 13 }
 - a) Express using roster method
 - 6) find n(N)
 - c) Find number of subsets and proper subsets
- d) List the proper subsets
- 9) Set B contains 20 elements, set A contains 8 elements and 5 elements are common to both set A and B. Fund n (AUB)
- 10) P: 3+5=8 9:247=20
 - And; a) pring b) ~ g > ~ p c)~(~p+79)

