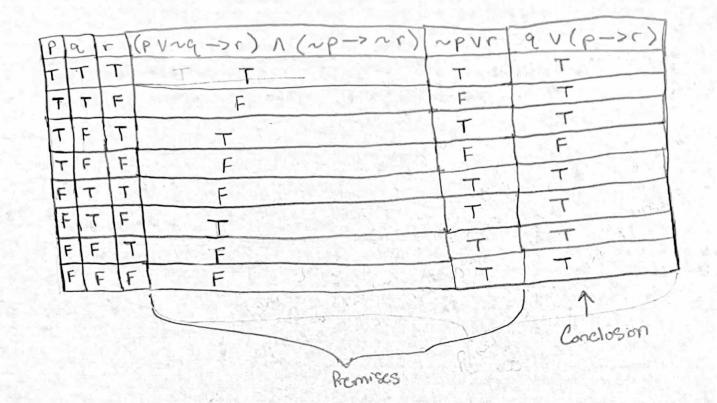
	CJ Hess
0	
	1a. The sentence $2-x=6+x$ is not
	a statement because it can be both
	true or false based on the value of
6 6 6 7 6	16.2 (Y real number x, if x(x-2) > 0 then x>2 or x < 0)
	= $\exists x$ real number x , if $x(x-2) \le 0$ then $x \le 2$
	and $x > 0$
1	1e. Inverse: For all integers n, if n is not prime
E 7/2	then n is not add
0	Contrapositive: For all integers n, if n is not
	add then n is not prime
200	12. For all answers on problem 16, if the answer
14-15	is not 10 then problem 16 is not
	correct.
	1e. False
	1f. Tive
STATE.	
	1g. True
	-7,110
0	



Due to the logic table including rows where all premises were true and the conclusion was true, the argument is valid.

3. a, False, because if x and y were 100. Then You get (100 == -101) or (100 < 100) = False. b. False because if x is 100, there is no y value that can satisfy (y == -x-1) or (XXY) C. There either condition can be true if the other can not. Ex! (50,100) -> (100 == -51) or (50,100) d. True, there exist numbers for x and y in the domain that will always satisfy the statement 4. n mod 7 = 4 then (n= + 2n - 5) mod 7 = 5 n= 1179 + 4 11 mod 7 = 4 then (121 + 22-5) mod 7 = 5 (7974) + 2(7544) = (138 moe) 7 = 5 ((N= 18 5 ... 18 mod 7 + 4 then (324 + 36 - 5) mod 7 = 5 355 mod 7 = 5

5. p a r w + s U FTFTFTT PVg = T p->r = T wv+ = T ~r = T q -> (SNU) = T + -> 25 = T with this row of the truth table, the conclusion is valid, because all premises are true and the conclusion is true