4 1 (4 points total) Prove the absorption law, $p \lor (p \land q) \equiv p$, via use of the logical identities on the front of this page (without using the absorption law)

$$PV(P \land q) = (P \land T) \lor (P \land q)$$
 Identity Law
$$= P \land (T \lor q)$$
 Distribution
$$= P \land T$$
 Domination
$$= P$$
 Identity

4 2 (4 points total) Give me the CNF (AKA Product of Sums) and DNF (AKA Sum of Products) for the truth table below

P	q	r	f(p,q,r)	DNF Terms	CNF Terms	
0	0	0	I	- (Dud Val)A		
0	0	1	0		F (brdrac)V	(Its possible to
0	1	0	0		= (prigur) A	simplify but you
0	1	1	1	- (20 V d VL) A		don't need to:)
1	0	0	1	トアハラハーハ		
1	0	1	0		+ (BYGVT)V	
1	1	0	0		(1 v prvgr)	
1	1	1	1	-(p/4/c)		

2. 3. (2 points total) Give the Duals of the two canonical forms you gave as the last answer.