Solutions (Logical Equivalence)

1.)								
/	P	9/] -p	(TPAQ)	PV(-PXQ)	PV9	- (PV (-PA9))) - (PV9)
	0	0	1.	0	0	0		
	0	1	1	1	,)	1	0	0
	1.	0	0	0	1	1	0	()
	1	1 \	0		1	1	O	()
	٠							

True

$$\neg (P \land 9) \lor (P \land 9)$$

[consider
$$(PMQ) = A$$
]

[Law of non-contradiction]

$$\neg (P \rightarrow Q)$$

$$\therefore \neg (p \rightarrow q) \equiv p \land \neg q$$

$$\neg (PV(\neg P \land Q))$$

$$\therefore \neg (PV(\neg P \land Q)) = \neg (PVQ)$$