Answers to graders' quit 1 U [(prg) V (prg)] V (prg) = (prg), (prg) v (prg) = (pvg) 1 (pvg) v (prg) = PV (9/9) V (p/9) = pv(p/9) = p $P\Lambda(pvq) = (pVF)\Lambda(pvq) = pv(q\Lambda F)$ = PVF = P (3) PV(PAg) = P PV(PAG) = (PAD) V(PAG) = PA(QVT) = PAT = p

Subject.
Date.

ول لوسراس) ر

(pvq) 1 (p -> r) 1 (9 -> r) -> 8

(pvq) \ (rpvr) \ (rqvr) \ Z

(PV9) 1 [YV(rp1 rq)] 7 Y

(pvg) A [YV~ (pvg)] >Y

[(pvq)] V [(pvq) 1 ~ (pvq)]

[YN (PV9)] VF multy -> Y

~ [YN(PVq)] VY = ~YV ~ (PVq)VY

 $= (\sim Y \vee Y) \vee \sim (p \vee q) = \sim (p \vee q) \vee T$ = (T)

PAPCO.