

Work Sheet 2

Question 1

No.

Date

→ * T F = F *

$p \sim q \sim r$	$p \sim q$	r	$\sim s$	$\sim s \vee q$	$(\sim s \vee p) \leftrightarrow np$	$\{r \wedge (\sim s \vee q) \leftrightarrow \sim p\}$	$np \leftrightarrow r$	$s \wedge \sim r$	$\sim(q \leftrightarrow r)$	$\sim(q \leftrightarrow r) \rightarrow (s \wedge \sim r)$	$s \wedge (\sim s \vee q) \leftrightarrow \sim p$
T	T	T	F	T	F	F	F	F	T	F	T
T	T	F	T	T	F	F	F	F	F	F	T
T	F	T	F	T	F	F	T	T	T	T	T
T	F	F	T	T	F	F	T	T	T	T	T
F	T	T	F	T	T	F	F	F	T	T	T
F	T	F	T	T	T	F	F	F	T	T	T
F	F	T	F	T	T	F	T	T	F	F	T
F	F	F	T	T	T	F	T	T	F	F	T
T	T	T	F	T	T	T	F	F	T	T	T
T	T	F	T	T	T	T	F	F	T	T	T
T	F	T	F	T	T	T	F	F	T	T	T
T	F	F	T	T	T	T	F	F	T	T	T
F	T	T	F	T	T	T	F	F	T	T	T
F	T	F	T	T	T	T	F	F	T	T	T
F	F	T	F	T	T	T	F	F	T	T	T
F	F	F	T	T	T	T	F	F	T	T	T
T	T	T	F	T	T	T	F	F	T	T	T
T	T	F	T	T	T	T	F	F	T	T	T
T	F	T	F	T	T	T	F	F	T	T	T
T	F	F	T	T	T	T	F	F	T	T	T
F	T	T	F	T	T	T	F	F	T	T	T
F	T	F	T	T	T	T	F	F	T	T	T
F	F	T	F	T	T	T	F	F	T	T	T
F	F	F	T	T	T	T	F	F	T	T	T

2. a) It is not the case that we are in class. *We are outside the class.*
b) It is the true that $2+3>5$ $2+3>5$
c) It is not the case that Mini is the biggest city in Parawat.

- 3 It rains tomorrow $\rightarrow$ I will bring an umbrella to work.
 p : It rains tomorrow
 q : I will bring an umbrella to work.
 $p \rightarrow q$.