

SYMBOLS AND MEANINGS

$\sim$ (Negation/ Not) : ukgh] v l ukgh dh

$\supset$ (Then /Implies) : t j rj] tki;r rki;r

$\bullet$ (And) : vkf.k] o] i.k] ijr

$\vee$ (Or) : vFkok] fdok

$\equiv$ (Equivalence) : t j vkf.k tjp] rj vkf.k rjp

Truth Tables

Negation/ Not

P	$\sim P$
T	
F	

Then /Implies

P	Q	$P \supset Q$
T	T	T
T	F	F
F	T	T
F	F	T

And

P	Q	$P \bullet Q$
T	T	T
T	F	F
F	T	F
F	F	F

Or

P	Q	$P \vee Q$
T	T	T
T	F	T
F	T	T
F	F	F

Equivalence

P	Q	$P \equiv Q$
T	T	T
T	F	F
F	T	F
F	F	T

Truth Table

MARCH

2

2002

Saturday

1. $(P \supset Q) \vee P$
2. $(P \supset Q) \cdot P$
3. $(P \equiv Q) \cdot (P \cdot Q)$
4. $(\sim P \vee Q) \cdot (P \supset Q)$
5. $P \equiv (P \vee Q)$
6. $(P \vee Q) \supset P$
7. $(P \supset Q) \vee (Q \supset P)$
8. $(P \vee Q) \supset (Q \vee P)$
9. $(P \equiv Q) \cdot \sim Q$
10. $(P \cdot Q) \vee (\sim P \cdot \sim Q)$
11. $(\sim P \vee Q) \cdot (P \supset Q)$
12. $(P \supset P) \equiv (P \cdot P)$
13. $(P \cdot Q) \supset (Q \vee R)$
14. $(P \vee Q) \equiv \sim R$
15. $\sim (P \cdot Q) \vee (\sim P \vee \sim Q)$
16. $(\sim P \supset Q) \cdot (\sim P \cdot \sim Q)$
17. $(P \supset Q) \equiv (Q \vee \sim P)$
18. $(P \equiv Q) \vee (Q \supset R)$
19. $(P \equiv Q) \vee (R \equiv Q)$
20. $(P \cdot Q) \vee (\sim P \cdot R)$
21. $(P \vee R) \supset (\sim Q \supset \sim P)$
22. $(P \cdot Q) \equiv (P \vee \sim R)$
23. $(P \cdot Q) \equiv \sim (\sim P \vee \sim Q)$
24. $\sim (P \vee Q) \cdot (\sim P \supset \sim Q)$
25. $\sim (P \cdot Q) \vee \sim (P \cdot \sim Q)$
26. $\sim P \cdot [\sim Q \vee (R \supset P)]$
27. $(P \supset P) \supset (Q \cdot \sim Q)$
28. $(P \cdot Q) \cdot (P \supset \sim Q)$
29. $\sim [(P \cdot P) \equiv P]$
30. $\sim [(P \supset Q) \vee (\sim P \supset \sim Q)]$
31. $[(P \vee Q) \cdot \sim P] \supset Q$
32. $[(P \supset Q) \cdot (Q \supset R)] \supset (P \supset R)$
33. $(P \cdot Q) \equiv (R \vee \sim S)$
34. $(P \supset \sim R) \cdot (\sim Q \vee S)$
35. $(\sim P \equiv Q) \supset (\sim Q \equiv P)$
36. $(P \equiv Q) \cdot \sim Q$
37. $(P \supset Q) \vee \sim R$
38. $(P \cdot Q) \vee (\sim P \cdot \sim Q)$
39. $P \equiv (Q \supset \sim P)$
40. $(A \supset B) \equiv (\sim B \supset \sim A)$
41. $[(P \vee Q) \cdot \sim P] \supset (Q \vee P)$
42. $[(R \supset S) \cdot \sim S] \supset \sim R$
43. $[(L \vee M) \cdot \sim L] \supset M$
44. $R \supset [(Q \vee \sim P) \equiv \sim Q]$
45. $[(P \cdot Q) \vee (Q \vee S)] \supset (Q \vee R)$
46. $[(P \supset Q) \cdot (Q \supset R)] \supset (\sim R \supset \sim P)$
47. $\sim [(P \equiv Q) \supset (\sim Q \supset \sim P)]$
48. $[P \cdot (Q \vee R)] \equiv (P \cdot Q)$
49. $[(\sim P \supset R) \supset Q] \equiv (P \vee R)$
50. $[(P \cdot Q) \supset R] \supset [P \supset (Q \supset R)]$
51. $X \equiv [(Z \equiv \sim Y) \equiv (\sim Z \equiv Y)]$
52. $\sim (B \cdot A) \cdot \sim (\sim B \cdot \sim A)$
53. $\sim [(P \vee \sim P) \equiv (\sim P \vee P)]$
54. $\sim [(\sim P \vee Q) \supset (\sim P \cdot \sim Q)]$
55. $(P \vee Q) \cdot [R \equiv (\sim P \vee Q)]$

Sunday 3

 $(P \cdot Q) \supset Q$ $Q \vee (P \vee Q)$ $(P \vee R) \cdot R$ $(P \equiv Q) \equiv Q$