

Chapter 5**Exercise 5.1****Part I**

1. $\neg C$
2. $A \leftrightarrow \neg N$
3. $S \wedge T$
4. $H \leftrightarrow B$
5. $C \supset E$
6. $L \supset C$
7. $M \equiv P$
8. $R \supset M$
9. $G \supset A$
10. $P \supset A$
11. $\neg B \wedge W$
12. $M \supset (L \leftrightarrow B)$
13. $M \leftrightarrow (R \wedge D)$
14. $(M \leftrightarrow E) \wedge D$
15. $\neg (J \leftrightarrow P)$
16. $\neg J \leftrightarrow \neg P$
17. $N \wedge S$
18. $\neg (F \wedge M)$
19. $\neg (F \wedge M)$ or $\neg F \leftrightarrow \neg M$
20. $\neg F \wedge \neg M$
21. $B \supset (C \supset R)$
22. $(B \supset C) \supset R$
23. $T \equiv \neg (R \wedge C)$
24. $S \supset (M \wedge B)$
25. $\neg R \wedge (M \supset F)$
26. $(L \wedge R) \supset \neg (G \wedge B)$
27. $(E \leftrightarrow A) \supset (C \wedge S)$
28. $(\neg P \leftrightarrow \neg C) \supset M$
29. $S \leftrightarrow (N \wedge J)$
30. $(S \leftrightarrow N) \wedge J$
31. $(T \leftrightarrow B) \wedge (\neg Z \leftrightarrow \neg R)$
32. $(B \supset C) \leftrightarrow (K \leftrightarrow E)$
33. $(S \wedge A) \leftrightarrow \neg (S \leftrightarrow A)$
34. $B \leftrightarrow (N \supset (C \wedge J))$
35. $\neg (I \leftrightarrow (S \wedge P))$
36. $\neg (H \wedge (A \leftrightarrow T))$
37. $M \supset (N \supset (S \leftrightarrow T))$
38. $M \supset (P \supset (D \supset S))$
39. $\neg (T \leftrightarrow M) \wedge (D \leftrightarrow S)$
40. $\neg ((K \wedge S) \leftrightarrow (C \wedge M))$
41. $I \supset P$
42. $\neg ((W \supset T) \leftrightarrow (C \supset K))$

Logic The Essentials

KJ Lindholm-Leary



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