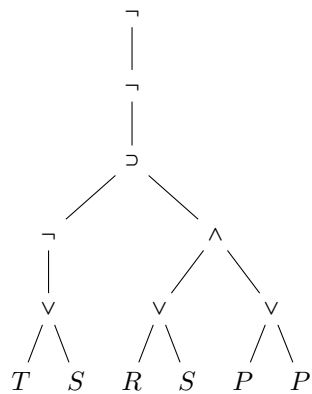


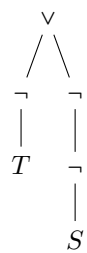
For each of the syntax trees, produce the corresponding sentence.

1.



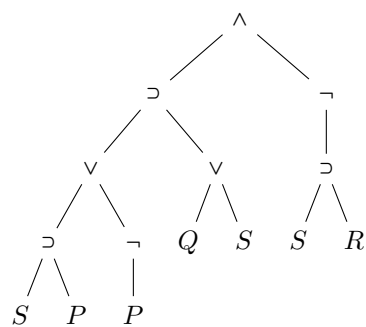
$$\neg\neg\{\neg(T \vee S) \supset [(R \vee S) \wedge (P \vee P)]\}$$

2.



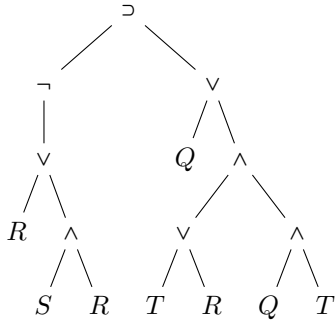
$$\neg T \vee \neg\neg S$$

3.



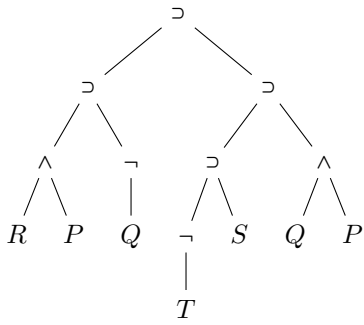
$$\{[(S \supset P) \vee \neg P] \supset (Q \vee S)\} \wedge \neg(S \supset R)$$

4.



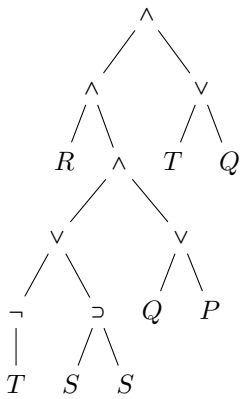
$$\neg[R \vee (S \wedge R)] \supset \{Q \vee [(T \vee R) \wedge (Q \wedge T)]\}$$

5.



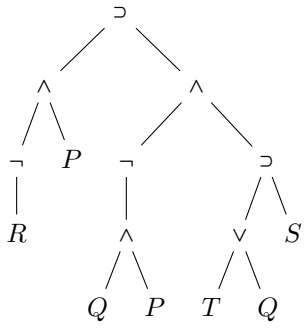
$$[(R \wedge P) \supset \neg Q] \supset [(\neg T \supset S) \supset (Q \wedge P)]$$

6.



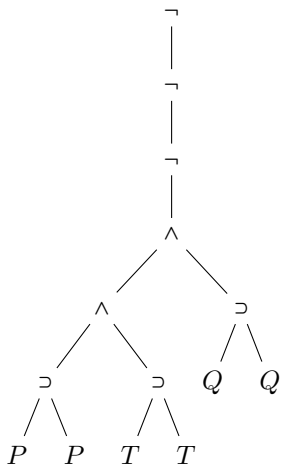
$$(R \wedge \{[\neg T \vee (S \supset S)] \wedge (Q \vee P)\}) \wedge (T \vee Q)$$

7.



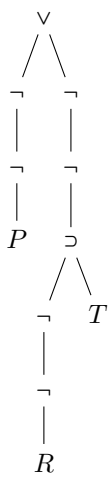
$$(\neg R \wedge P) \supset \{\neg(Q \wedge P) \wedge [(T \vee Q) \supset S]\}$$

8.



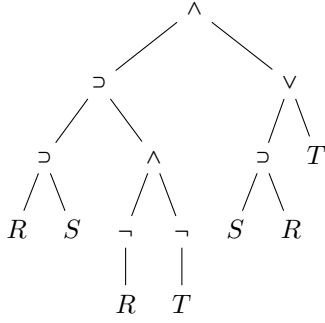
$$\neg\neg\neg\{[(P \supset P) \wedge (T \supset T)] \wedge (Q \supset Q)\}$$

9.



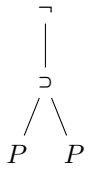
$$\neg\neg P \vee \neg\neg(\neg\neg R \supset T)$$

10.



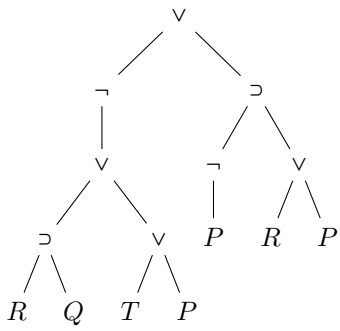
$$[(R \supset S) \supset (\neg R \wedge \neg T)] \wedge [(S \supset R) \vee T]$$

11.



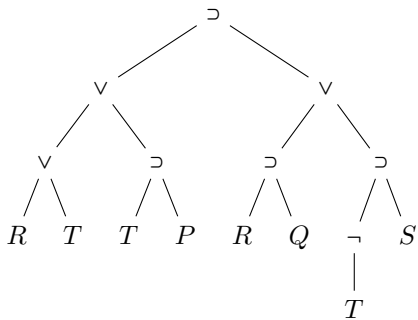
$$\neg(P \supset P)$$

12.



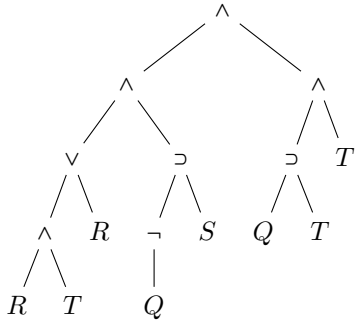
$$\neg[(R \supset Q) \vee (T \vee P)] \vee [\neg P \supset (R \vee P)]$$

13.



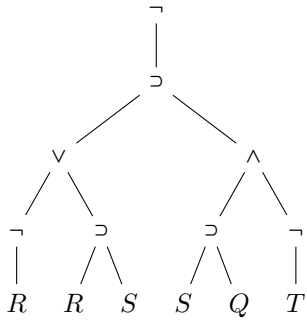
$$[(R \vee T) \vee (T \supset P)] \supset [(R \supset Q) \vee (\neg T \supset S)]$$

14.



$$\{[(R \wedge T) \vee R] \wedge (\neg Q \supset S)\} \wedge [(Q \supset T) \wedge T]$$

15.



$$\neg\{[\neg R \vee (R \supset S)] \supset [(S \supset Q) \wedge \neg T]\}$$

16.



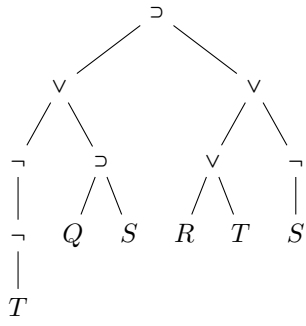
$$Q \vee R$$

17.



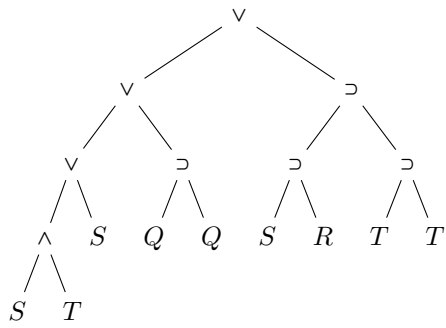
$$\neg R$$

18.



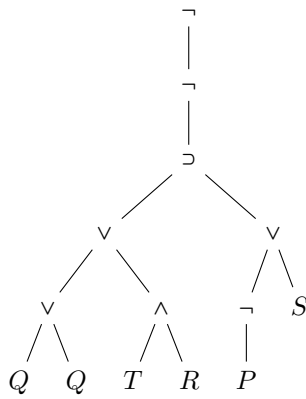
$$[\neg\neg T \vee (Q \supset S)] \supset [(R \vee T) \vee \neg S]$$

19.



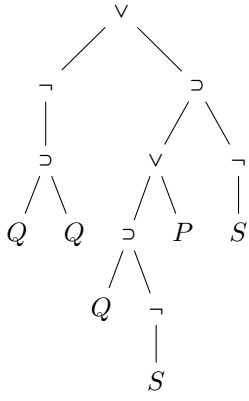
$$\{[(S \wedge T) \vee S] \vee (Q \supset Q)\} \vee [(S \supset R) \supset (T \supset T)]$$

20.



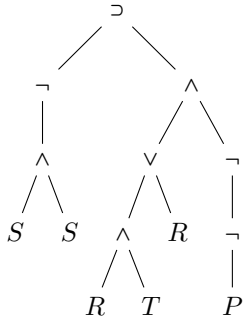
$$\neg\neg\{[(Q \vee Q) \vee (T \wedge R)] \supset (\neg P \vee S)\}$$

21.



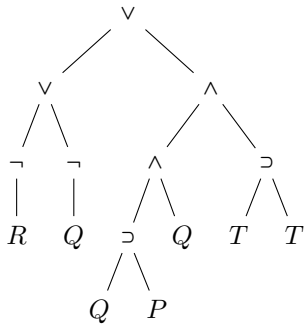
$$\neg(Q \supset Q) \vee \{[(Q \supset \neg S) \vee P] \supset \neg S\}$$

22.



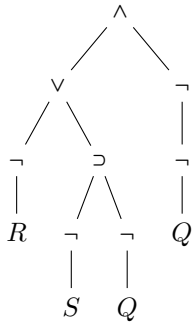
$$\neg(S \wedge S) \supset \{[(R \wedge T) \vee R] \wedge \neg\neg P\}$$

23.



$$(\neg R \vee \neg Q) \vee \{[(Q \supset P) \wedge Q] \wedge (T \supset T)\}$$

24.



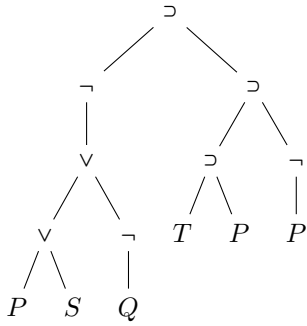
$$[\neg R \vee (\neg S \supset \neg Q)] \wedge \neg \neg Q$$

25.



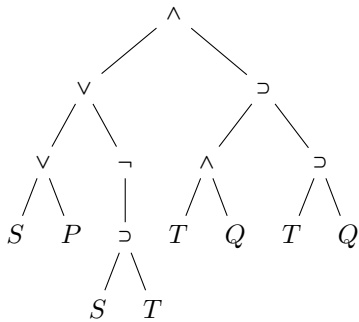
$$\neg \neg (T \vee Q)$$

26.



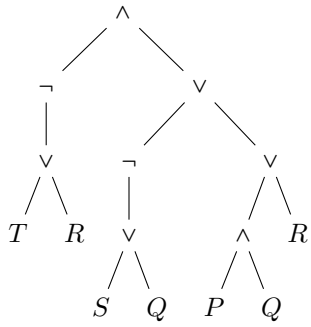
$$\neg [(P \vee S) \vee \neg Q] \supset [(T \supset P) \supset \neg P]$$

27.



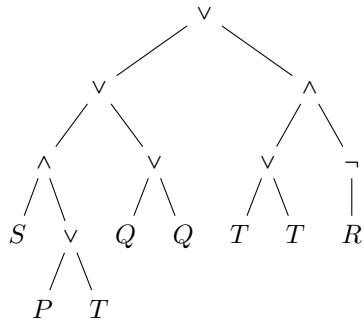
$$[(S \vee P) \vee \neg(S \supset T)] \wedge [(T \wedge Q) \supset (T \supset Q)]$$

28.



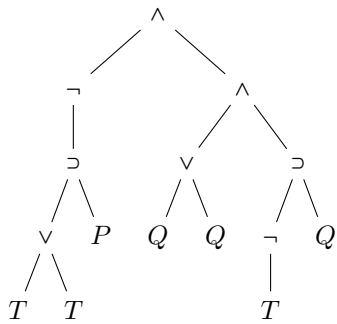
$$\neg(T \vee R) \wedge \{\neg(S \vee Q) \vee [(P \wedge Q) \vee R]\}$$

29.



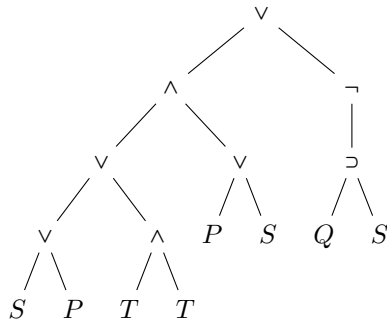
$$\{[S \wedge (P \vee T)] \vee (Q \vee Q)\} \vee [(T \vee T) \wedge \neg R]$$

30.



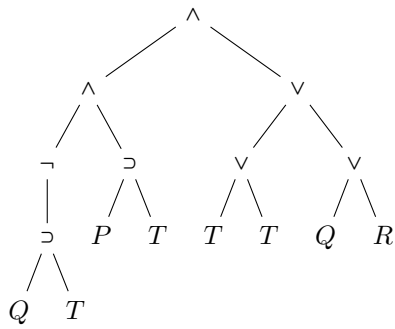
$$\neg[(T \vee T) \supset P] \wedge [(Q \vee Q) \wedge (\neg T \supset Q)]$$

31.



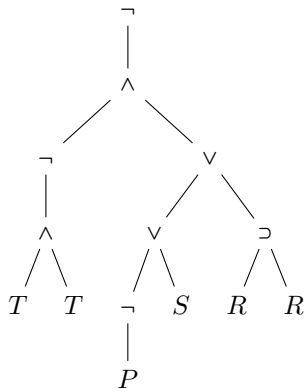
$$\{[(S \vee P) \vee (T \wedge T)] \wedge (P \vee S)\} \vee \neg(Q \supset S)$$

32.



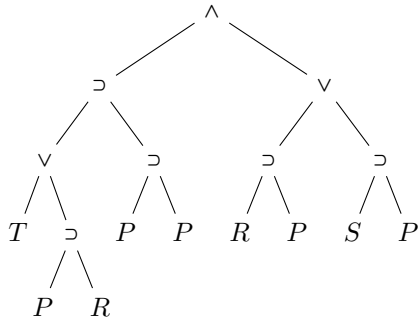
$$[\neg(Q \supset T) \wedge (P \supset T)] \wedge [(T \vee T) \vee (Q \vee R)]$$

33.



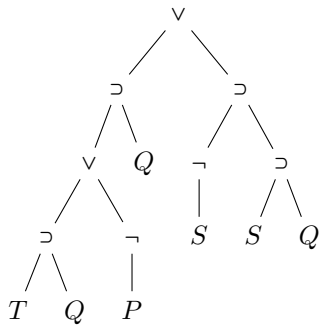
$$\neg\{ \neg(T \wedge T) \wedge [(\neg P \vee S) \vee (R \supset R)] \}$$

34.



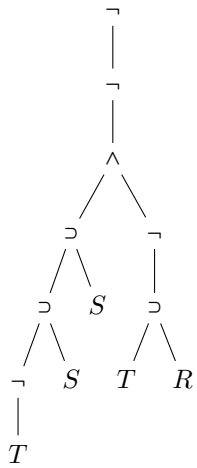
$$\{[T \vee (P \supset R)] \supset (P \supset P)\} \wedge [(R \supset P) \vee (S \supset P)]$$

35.



$$\{[(T \supset Q) \vee \neg P] \supset Q\} \vee [\neg S \supset (S \supset Q)]$$

36.



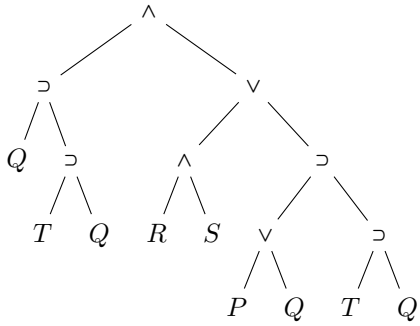
$$\neg \neg \{[(\neg T \supset S) \supset S] \wedge \neg(T \supset R)\}$$

37.



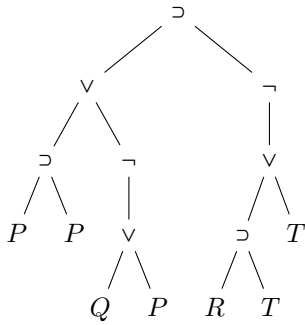
$$(T \wedge Q) \wedge \neg T$$

38.



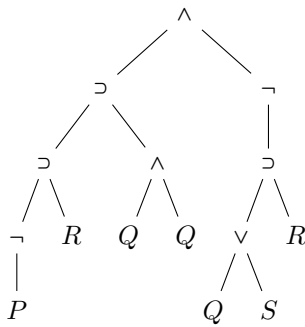
$$[Q \supset (T \supset Q)] \wedge \{(R \wedge S) \vee [(P \vee Q) \supset (T \supset Q)]\}$$

39.



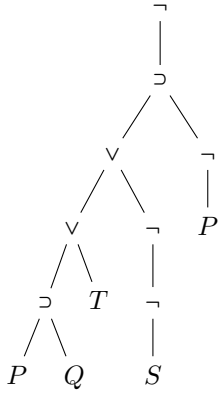
$$[(P \supset P) \vee \neg(Q \vee P)] \supset \neg[(R \supset T) \vee T]$$

40.



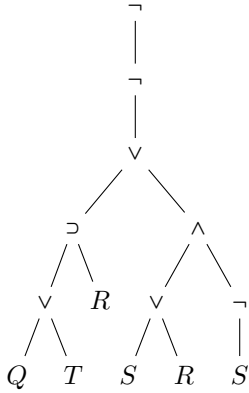
$$[(\neg P \supset R) \supset (Q \wedge Q)] \wedge \neg[(Q \vee S) \supset R]$$

41.



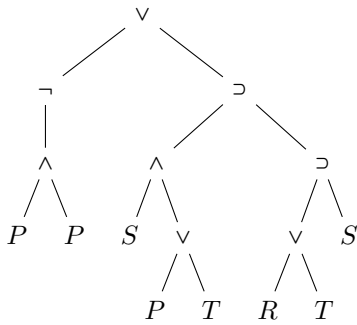
$$\neg(\{[(P \supset Q) \vee T] \vee \neg\neg S\} \supset \neg P)$$

42.



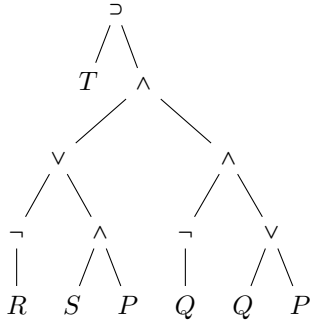
$$\neg\neg\{[(Q \vee T) \supset R] \vee [(S \vee R) \wedge \neg S]\}$$

43.



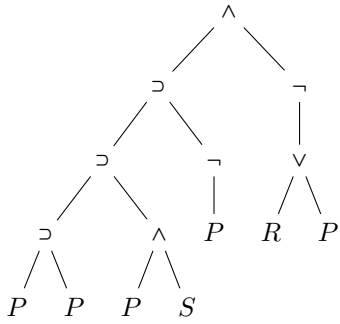
$$\neg(P \wedge P) \vee \{[S \wedge (P \vee T)] \supset [(R \vee T) \supset S]\}$$

44.



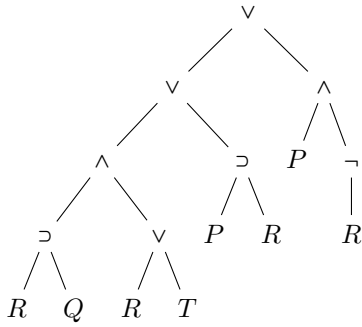
$$T \supset \{[\neg R \vee (S \wedge P)] \wedge [\neg Q \wedge (Q \vee P)]\}$$

45.



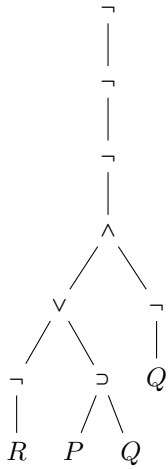
$$\{[(P \supset P) \supset (P \wedge S)] \supset \neg P\} \wedge \neg(R \vee P)$$

46.



$$\{[(R \supset Q) \wedge (R \vee T)] \vee (P \supset R)\} \vee (P \wedge \neg R)$$

47.



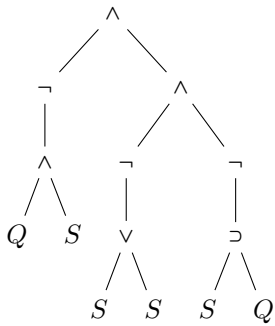
$$\neg\neg\neg\{[\neg R \vee (P \supset Q)] \wedge \neg Q\}$$

48.



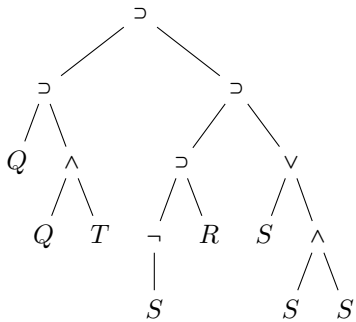
$$S \wedge S$$

49.



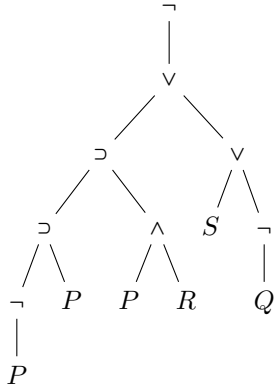
$$\neg(Q \wedge S) \wedge [\neg(S \vee S) \wedge \neg(S \supset Q)]$$

50.



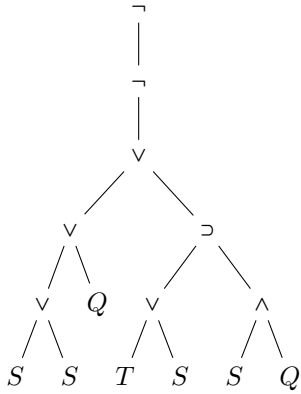
$$[Q \supset (Q \wedge T)] \supset \{(\neg S \supset R) \supset [S \vee (S \wedge S)]\}$$

51.



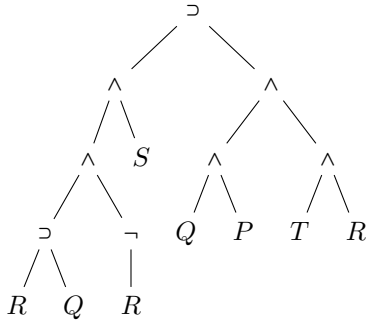
$$\neg\{[(\neg P \supset P) \supset (P \wedge R)] \vee (S \vee \neg Q)\}$$

52.



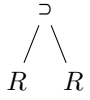
$$\neg\neg\{[(S \vee S) \vee Q] \vee [(T \vee S) \supset (S \wedge Q)]\}$$

53.



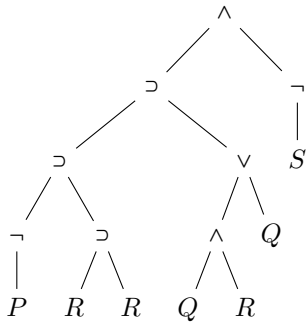
$$\{[(R \supset Q) \wedge \neg R] \wedge S\} \supset [(Q \wedge P) \wedge (T \wedge R)]$$

54.



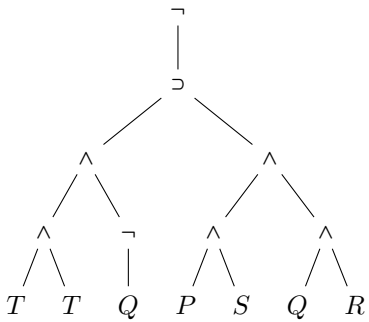
$$R \supset R$$

55.



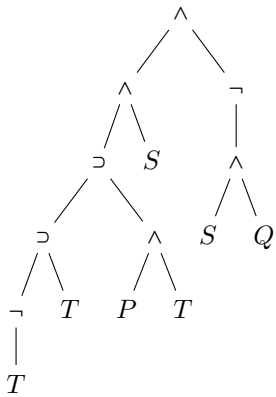
$$\{[\neg P \supset (R \supset R)] \supset [(Q \wedge R) \vee Q]\} \wedge \neg S$$

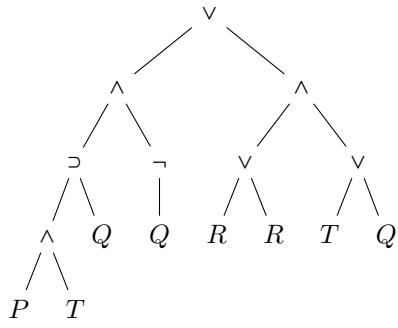
56.



$$\neg\{[(T \wedge T) \wedge \neg Q] \supset [(P \wedge S) \wedge (Q \wedge R)]\}$$

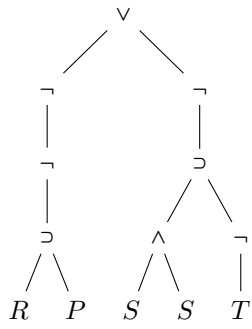
57.





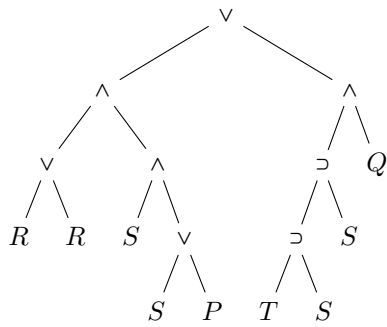
$$\{[(P \wedge T) \supset Q] \wedge \neg Q\} \vee [(R \vee R) \wedge (T \vee Q)]$$

62.



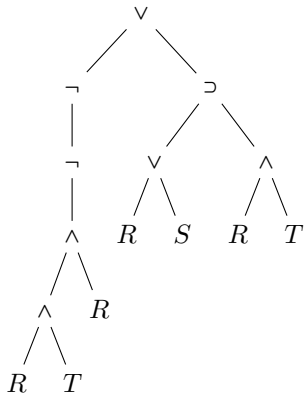
$$\neg\neg(R \supset P) \vee \neg[(S \wedge S) \supset \neg T]$$

63.



$$\{(R \vee R) \wedge [S \wedge (S \vee P)]\} \vee \{[(T \supset S) \supset S] \wedge Q\}$$

64.



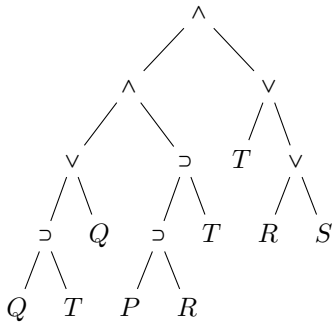
$$\neg\neg[(R \wedge T) \wedge R] \vee [(R \vee S) \supset (R \wedge T)]$$

65.



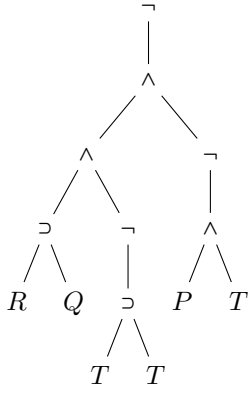
$$\neg(T \wedge S)$$

66.



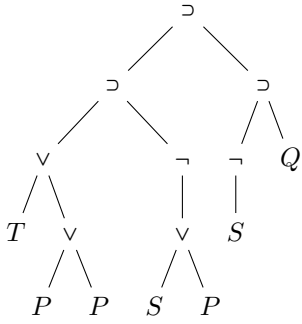
$$\{[(Q \supset T) \vee Q] \wedge [(P \supset R) \supset T]\} \wedge [T \vee (R \vee S)]$$

67.



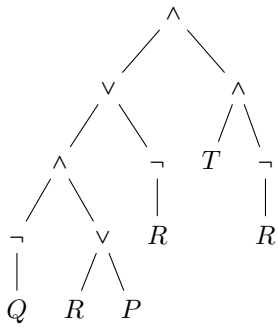
$$\neg\{[(R \supset Q) \wedge \neg(T \supset T)] \wedge \neg(P \wedge T)\}$$

68.



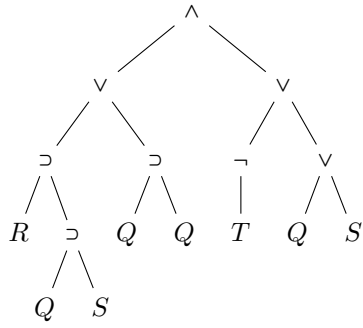
$$\{[T \vee (P \vee P)] \supset \neg(S \vee P)\} \supset (\neg S \supset Q)$$

69.



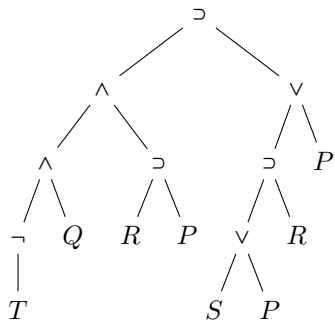
$$\{[\neg Q \wedge (R \vee P)] \vee \neg R\} \wedge (T \wedge \neg R)$$

70.



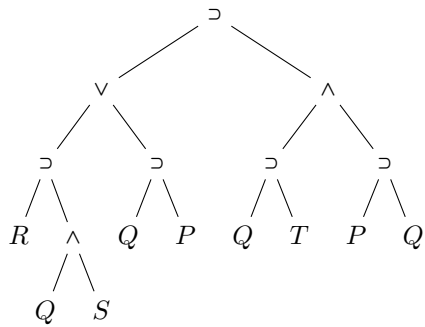
$$\{[R \supset (Q \supset S)] \vee (Q \supset Q)\} \wedge [\neg T \vee (Q \vee S)]$$

71.



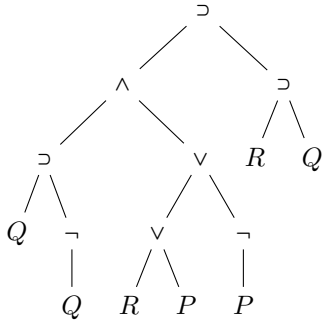
$$[(\neg T \wedge Q) \wedge (R \supset P)] \supset \{[(S \vee P) \supset R] \vee P\}$$

72.



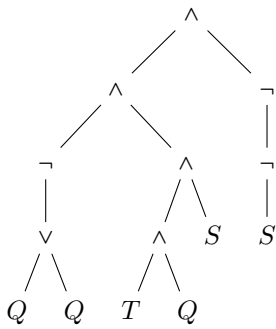
$$\{[R \supset (Q \wedge S)] \vee (Q \supset P)\} \supset [(Q \supset T) \wedge (P \supset Q)]$$

73.



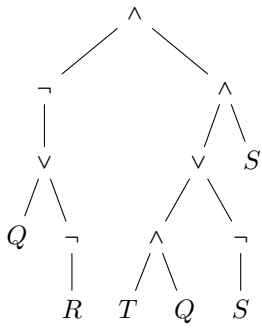
$$\{(Q \supset \neg Q) \wedge [(R \vee P) \vee \neg P]\} \supset (R \supset Q)$$

74.



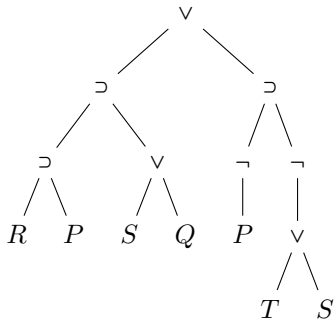
$$\{\neg(Q \vee Q) \wedge [(T \wedge Q) \wedge S]\} \wedge \neg\neg S$$

75.



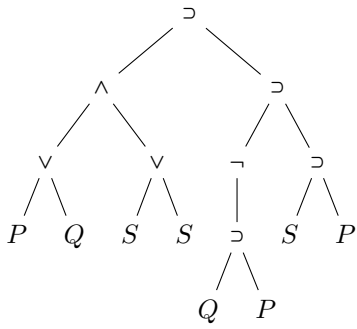
$$\neg(Q \vee \neg R) \wedge \{[(T \wedge Q) \vee \neg S] \wedge S\}$$

76.



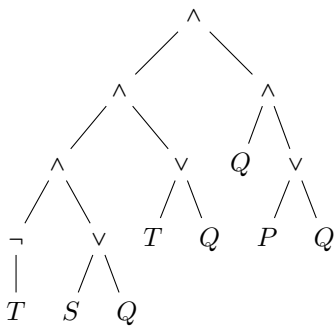
$$[(R \supset P) \supset (S \vee Q)] \vee [\neg P \supset \neg(T \vee S)]$$

77.



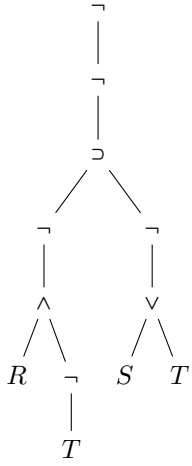
$$[(P \vee Q) \wedge (S \vee S)] \supset [\neg(Q \supset P) \supset (S \supset P)]$$

78.



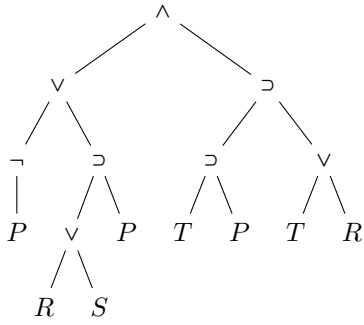
$$\{[\neg T \wedge (S \vee Q)] \wedge (T \vee Q)\} \wedge [Q \wedge (P \vee Q)]$$

79.



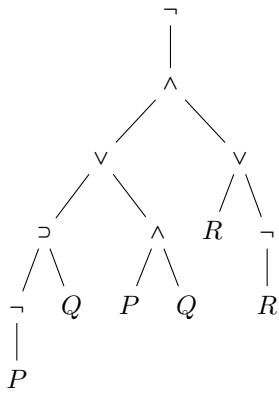
$$\neg\neg[\neg(R \wedge \neg T) \supset \neg(S \vee T)]$$

80.



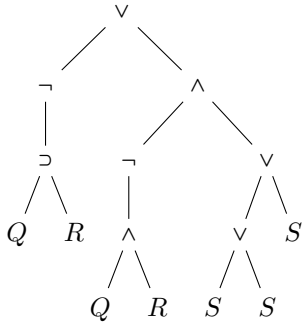
$$\{\neg P \vee [(R \vee S) \supset P]\} \wedge [(T \supset P) \supset (T \vee R)]$$

81.



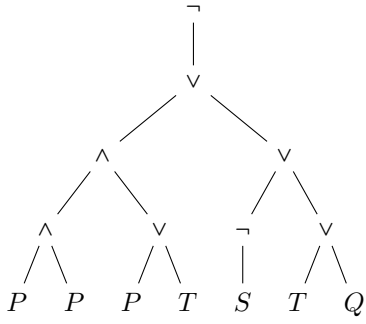
$$\neg\{[(\neg P \supset Q) \vee (P \wedge Q)] \wedge (R \vee \neg R)\}$$

82.



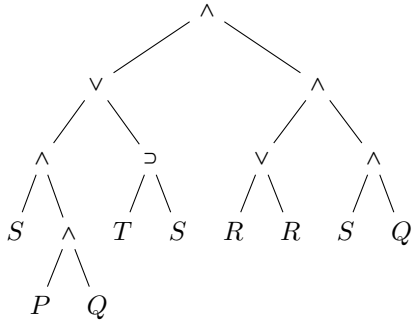
$$\neg(Q \supset R) \vee \{\neg(Q \wedge R) \wedge [(S \vee S) \vee S]\}$$

83.



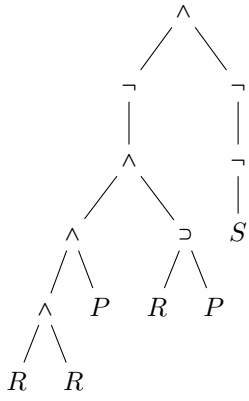
$$\neg\{[(P \wedge P) \wedge (P \vee T)] \vee [\neg S \vee (T \vee Q)]\}$$

84.



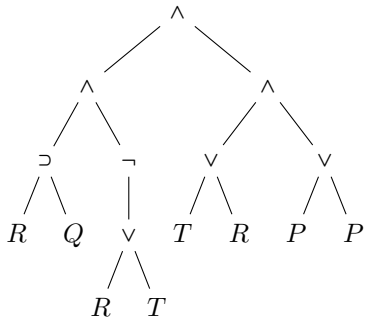
$$\{[S \wedge (P \wedge Q)] \vee (T \supset S)\} \wedge [(R \vee R) \wedge (S \wedge Q)]$$

85.



$$\neg\{[(R \wedge R) \wedge P] \wedge (R \supset P)\} \wedge \neg\neg S$$

86.



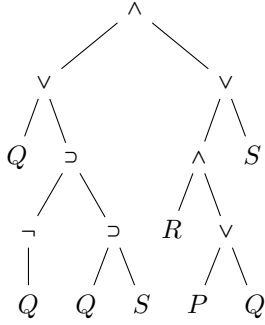
$$[(R \supset Q) \wedge \neg(R \vee T)] \wedge [(T \vee R) \wedge (P \vee P)]$$

87.



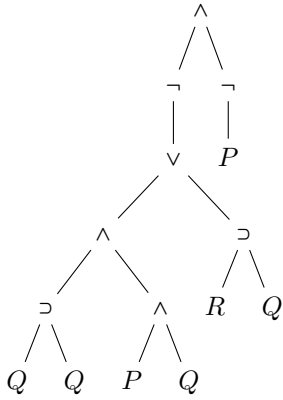
$$\neg\neg\neg[\neg S \wedge \neg\neg(Q \vee Q)]$$

88.



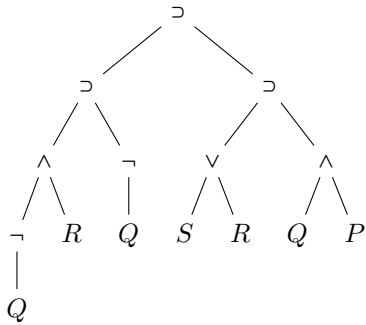
$$\{Q \vee [\neg Q \supset (Q \supset S)]\} \wedge \{[R \wedge (P \vee Q)] \vee S\}$$

89.



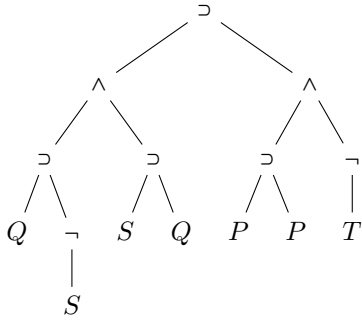
$$\neg\{[(Q \supset Q) \wedge (P \wedge Q)] \vee (R \supset Q)\} \wedge \neg P$$

90.



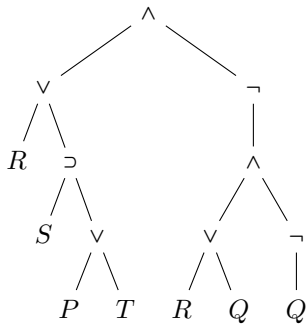
$$[(\neg Q \wedge R) \supset \neg Q] \supset [(S \vee R) \supset (Q \wedge P)]$$

91.



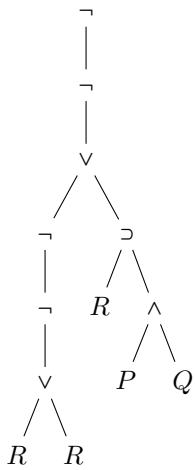
$$[(Q \supset \neg S) \wedge (S \supset Q)] \supset [(P \supset P) \wedge \neg T]$$

92.



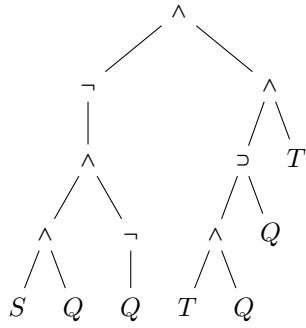
$$\{R \vee [S \supset (P \vee T)]\} \wedge \neg[(R \vee Q) \wedge \neg Q]$$

93.



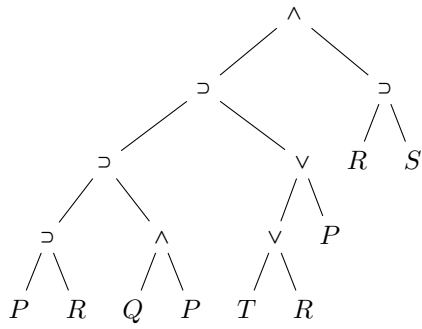
$$\neg \neg \{ \neg \neg (R \vee R) \vee [R \supset (P \wedge Q)] \}$$

94.



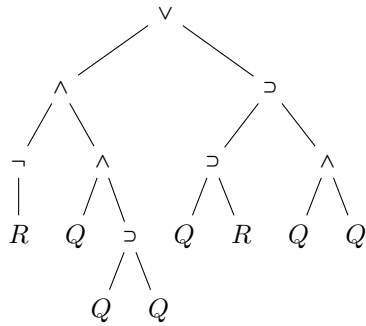
$$\neg[(S \wedge Q) \wedge \neg Q] \wedge \{[(T \wedge Q) \supset Q] \wedge T\}$$

95.



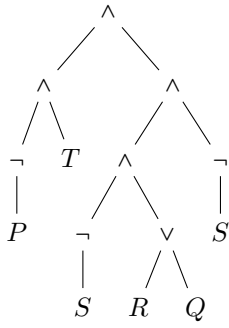
$$\{[(P \supset R) \supset (Q \wedge P)] \supset [(T \vee R) \vee P]\} \wedge (R \supset S)$$

96.



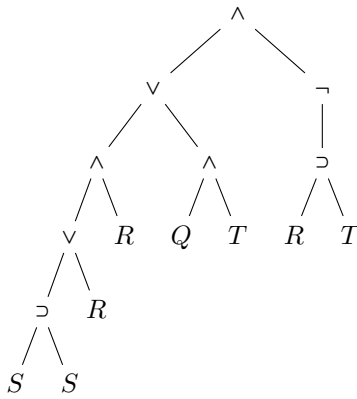
$$\{\neg R \wedge [Q \wedge (Q \supset Q)]\} \vee [(Q \supset R) \supset (Q \wedge Q)]$$

97.



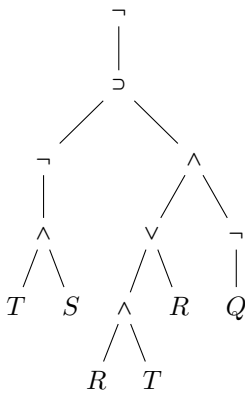
$$(\neg P \wedge T) \wedge \{[\neg S \wedge (R \vee Q)] \wedge \neg S\}$$

98.



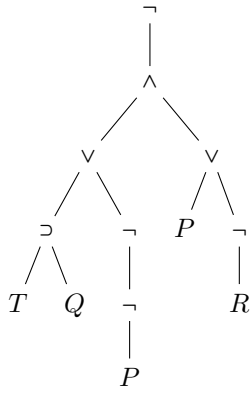
$$\left(\{[(S \supset S) \vee R] \wedge R\} \vee (Q \wedge T) \right) \wedge \neg(R \supset T)$$

99.



$$\neg \left(\neg(T \wedge S) \supset \{[(R \wedge T) \vee R] \wedge \neg Q\} \right)$$

100.



$$\neg\{[(T \supset Q) \vee \neg\neg P] \wedge (P \vee \neg R)\}$$