For each of the following, indicate whether it is a wff (True means that it is a wff) .

$$1. \ \neg) \qquad \qquad \text{True/False}$$

$$2. \ \neg S \supset P) \qquad \qquad \text{True/False}$$

$$3. \ [(P \land Q) \land (T \land Q)] \supset [(Q \lor S) \supset P] \qquad \qquad \text{True/False}$$

$$4. \ \neg \neg Q \qquad \qquad \qquad \text{True/False}$$

$$5. \ [Q \supset (T \lor W)] \lor [\neg R \land (T \supset P)]) \qquad \qquad \text{True/False}$$

$$6. \ W \} \qquad \qquad \qquad \text{True/False}$$

$$7. \ [(Q \land W) \supset (\{ \lor S)] \land \neg \neg Q \qquad \qquad \text{True/False}$$

$$8. \ P \neg \land S \qquad \qquad \qquad \text{True/False}$$

$$8. \ P \neg \land S \qquad \qquad \qquad \text{True/False}$$

$$9. \ S \qquad \qquad \qquad \qquad \text{True/False}$$

$$10. \ \{[(R \land Q) \supset (W \supset W)] \lor S\} \land (S \lor P \qquad \qquad \text{True/False}$$

$$11. \ [(T \supset P) \land R] \lor \neg (P \lor \neg R) \qquad \qquad \text{True/False}$$

$$12. \ [\neg (T \land S) \lor W] \lor \neg (T \supset R) \qquad \qquad \text{True/False}$$

$$13. \ [(W \supset W) \land W] \land [(W \lor P) \supset W] \qquad \qquad \text{True/False}$$

$$14. \ (\neg T \lor \neg R) \supset [P \land (S \land Q)] \qquad \qquad \text{True/False}$$

$$15. \ \neg (R \land W) \lor \{\{W \lor Q\} \qquad \qquad \text{True/False}$$

16. $\neg \{ \lceil (P \lor T) \supset Q \rceil \supset \lceil (W \supset T) \supset R \rceil \} \dots$ True/False

27.
$$[R \lor (S \lor P)] \land [(S \land Q) \lor (TS)]$$
......True/False/

28.
$$\neg\neg W \lor [\neg R \lor (P(T)]$$
.....True/False

31.
$$\neg (T \lor R \mid \lor [(Q \land S) \supset (W \lor T)]$$
......True/False