

Using Circuits to Teach Truth Tables – Class Handout

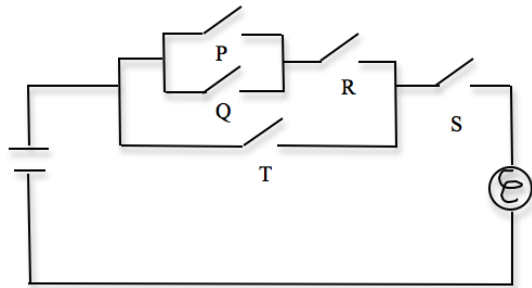
1. For each logic statement, draw the analogous circuit diagram and construct and complete the corresponding truth table. Construct each of these circuits and use them to check the values in your truth tables.

(a) $(P \vee Q) \wedge (R \vee (S \wedge T))$

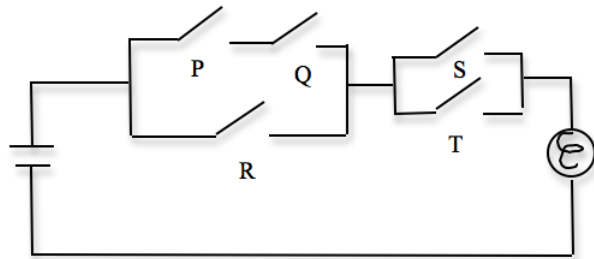
(b) $((P \wedge Q) \vee (R \wedge S)) \vee (T \wedge U)$

(c) $(P \wedge (Q \vee R)) \vee (S \wedge T)$

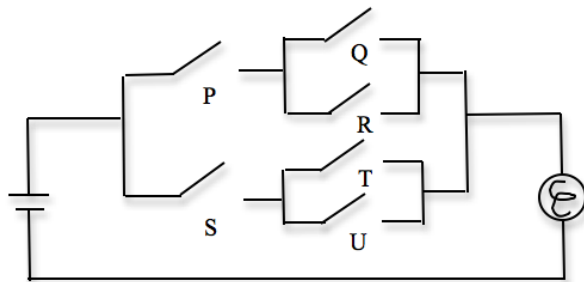
2. For each circuit, give the analogous logic statement and construct and complete the corresponding truth table. Construct each of these circuits and use them to check the values in your truth tables.



(a)



(b)



(c)