1. Show that these statements are logically equivalent using the laws of logical equivalences. Be sure to cite each law whenever used.
2. and
3. and
4. and
5. and
6. and
7. and
8. and
9. and
10. and wirawan
11. and
12. and
13. Simplify these proposition using the laws of logical equivalences. Be sure to cite each law whenever used.
14. Use known equivalences to show that these statements is a tautology.
15. siwi
16. putu
17. Use known equivalences to show that these statements is a contradiction.