Boolean Algebra Pretest II

SIMPLIFY

1. $(D+E)(D+\overline{E})$

2. $(A+\overline{B})(\overline{A}+B)$

3. $D+\overline{\overline{HI}JHQI}$

4. $\overline{B}(E+B)$

5. $(F+G)(F+\overline{G})$

6. $C(DA+DWAL+LAND)$

FACTOR COMPLETELY

7. $IT+\overline{\overline{IT}}Y$

8. $IN+OUT$

9. $\overline{C}X+\overline{C}U+J\overline{C}$

DeMORGANIZE

10. $\overline{\overline{A}+\overline{\overline{B}}}$

11. $\overline{\overline{P}Q\overline{R}}$

12. $\overline{\overline{XY}+\overline{X+Y}}$

<u>SIMPLIFY COMPLETELY</u>

13. $\overline{(C+Q\overline{\overline{U}}E)\overline{Z}}$

14. $\overline{(E+\overline{E})(\overline{FG}+G+\overline{F})}$

15. $MN + MP + M\overline{N} + \overline{P+Q} + \overline{\overline{P}\,\overline{Q}}$

16. $\overline{\overline{MN}(P+Q)(\overline{R+S})}$

17. $(A+B\overline{Y}E)(N+B\overline{Y}E)(D+B\overline{Y}E)$

18. $\overline{(A+\overline{B}+\overline{C})}\;\overline{(A+\overline{C})}$