

**Boolean Algebra**  
**Assignment #4**

Name \_\_\_\_\_

1.  $\overline{(\bar{x} + \bar{x})}$

2.  $\bar{w}(\overline{wxyz})$

3.  $\bar{x} + \bar{y} + xy\bar{z}$

4.  $\bar{A}(A + B) + (B + AA)(A + \bar{B})$

5.  $(A + C)(AD + A\bar{D}) + AC + C$

6.  $\overline{AB}(\overline{A} + B)(\overline{B} + B)$

7.  $\overline{A}\overline{B}\overline{C} + \overline{A}\overline{B}C + A\overline{B}\overline{C}$

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

9.  $X + \overline{X}Y + \overline{X}YZ$

10.  $ABC + \overline{ABC}$