

## Digital Logic Basics

Simplify the follow using a K-map

1.  $xy + x'y'z' + x'yz'$

2.  $x'y + yz' + y'z'$

3.  $F(x, y, z) = \sum(0, 2, 4, 5)$

4.  $F(x, y, z) = \sum(1, 2, 3, 7)$

5.  $A'B'C'D' + AC'D' + B'CD' + A'BCD + BC'D$

6.  $F(w, x, y, z) = \sum(1, 3, 4, 5, 6, 7, 9, 11, 13, 15)$