

Sample Grid Set-Ups for K-Maps

(Cells in K-Map grid correspond to specific rows in function truth table)

2 variables (x, y)

	x=0	x=1
y=0		
y=1		

3 variables (x,y,z)

Remember these are NOT in numerical order	x = 0	x=1
y=0, z=0		
y = 0, z = 1		
y=1, z = 1		
y=1, z=0		

4 variables (w,x,y,z)

Same ordering as above	y=0, z=0	y=0, z=1	y=1, z=1	y=1, z=0
w=0, x=0				
w=0, x=1				
w=1, x=1				
w=1, x=0				

Sample Grid Set-Ups for K-Maps: using variables for meaning

(Cells in K-Map grid correspond to specific rows in function truth table)

2 variables (x, y)

	x'	x
y'		
y		

3 variables (x,y,z)

Remember these are NOT in numerical order	x'	x
y', z'		
y', z		
y, z		
y, z'		

4 variables (w,x,y,z)

Same ordering as above	y', z'	y', z	y, z	y, z'
w', x'				
w', x				
w, x				
w, x'				