

Diagram illustrating a 4x4 Karnaugh map for a function of four variables X, Y, Z, W . The map is labeled with X and Y on the top and left, and Z and W on the right and bottom. The map is divided into four groups by dashed lines: a vertical group of two 1s (orange), a horizontal group of two 1s (green), and two single 1s (green).

		D		E	
		ED			
		00	01	11	10
CB	00	0 <small>0000</small>	0 <small>0100</small>	1 <small>1100</small>	0 <small>1000</small>
	01	0 <small>0001</small>	0 <small>0101</small>	1 <small>1101</small>	0 <small>1001</small>
	11	1 <small>0011</small>	0 <small>0111</small>	0 <small>1111</small>	1 <small>1011</small>
C	10	0 <small>0010</small>	0 <small>0110</small>	0 <small>1110</small>	0 <small>1010</small>

$$A = 1 / \underline{CB\overline{D}} + \underline{ED\overline{C}}$$