



7-18

	inputs	outputs	$2^B \times 8$	ROM
(a)	8	8	$2^8 \times 8$	256×8
(b)	9	5	$2^9 \times 5$	512×5
(c)	10	4	$2^{10} \times 4$	1024×4
(d)	5	7	$2^5 \times 7$	32×7

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	00	01	11	10
0	0	1	0	1
1	1	0	0	1

1	1	0	0
0	0	1	1

0	0	0	1
0	0	0	1

0	1	1	1
0	1	1	0

$A = yz' + xz' + x'y'z$
 $A' = yz + xz + x'y'z'$
 $B = xy + x'y'$
 $B' = x'y + x'y'$
 $C = yz'$
 $C' = y' + z$
 $D = z + x'y$
 $D' = y'z' + xz'$

	Product term	Inputs x y z	outputs ABCD
yz'	1	-10	1-1-
xz'	2	1-0	1---
$x'y'z$	3	001	-1--
xy'	4	10-	-1-1
$x'y$	5	01-	-1-1
z	6	--1	- --1
			<u>TCIT</u>

