

$F = \Sigma(0, 3, 5, 7, 8, 13, 14, 15)$ Draw the circuit using a
8x1 Multiplexer. Draw the truth table first.

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a	b	c	d	F
0	0	0	0	1
0	0	0	1	0
0	0	1	0	0
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	0
0	1	1	1	1
1	0	0	0	1
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

$$f(a, b, c, d) = a'b'c'd' + a'b'cd + a'bc'd + a'bcd + ab'c'd' + ab'cd + abcd' + abcd$$

