If x is prime $\gamma \rightarrow 01$ If x is 6's multiple $\gamma \rightarrow 10$ else $\gamma \rightarrow 00$

Truth table,

(= xox2 (x3x1+x3x1).

X3	×2	×	Xo	Υ,	10710	
00	0 0	0	0	0 0	0	0 6
0	0	2×1×2	0	0	0	3
00.00	1 00 0	0 0 00 -	0 1 0 1 0 1 0	0 0 0 0 0 0 0	0 0 0	4 5 6 7 8 9
1 1 1 1	0	0001	0 0 0 1	00 00	00-00	12 13 14 15

01

,				
,	XI	10	11	10
3×200	0	0	0	0
01	0	0	0	0
11	0	0	0	0
10	0	0	0	0

$$Y_{1} = \times 3 \times_{2} \times_{1} \times_{0}$$

$$+ \overline{X}_{3} \times_{2} \times_{1} \times_{0}$$

$$Y_{1} = \overline{X}_{0} \times_{2} (\times_{3} \times_{1} + \overline{X}_{3} \times_{1}).$$

$$Y_{1} = \overline{X}_{0} \times_{2} (\times_{3} \oplus_{1} \times_{1}).$$

$$Y_{0} = \chi_{1} \times_{0} \times_{3} + \chi_{3} \times_{2} \times_{0}$$

$$+ \chi_{1} \times_{0} \times_{2} + \chi_{3} \times_{2} \times_{1} \times_{0}$$

$$Y_{0} = \chi_{0} \times_{3} (\chi_{1} + \chi_{2}) + \chi_{0} \times_{0} (\chi_{1} \times_{2} + \chi_{1} \times_{2} \times_{3}).$$

