

$$\begin{aligned}
 Y &= (a \cdot (\bar{b} + c)) \cdot (a + \bar{c}) = \\
 &= (a\bar{b} + ac) \cdot (a + \bar{c}) = \\
 &= \underbrace{a\bar{b}a + a\bar{b}\bar{c}}_0 + a\bar{c}a + a\bar{c}\bar{c} = \\
 &= \boxed{a\bar{b}} + \boxed{a\bar{c}} = \\
 &= a\bar{b} + a\bar{c}
 \end{aligned}$$

$$\begin{aligned}
 &= a(\bar{b} + \bar{c}) \\
 X + XY &= X
 \end{aligned}$$

abc	$\bar{b}c$	$\bar{b}c$	y
000	0	1	0
001	0	1	0
010	0	0	0
011	0	1	0
100	0	1	1
101	0	1	1
110	0	0	0
111	0	1	1