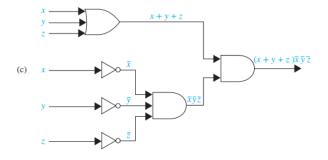
- 28. Find the duals of these Boolean expressions.
- a) x + yc) $xyz + \overline{x}\overline{y}\overline{z}$
- **b**) $\bar{x}\bar{y}$ **d**) $x\bar{z} + x \cdot 0 + \bar{x} \cdot 1$

EXAMPLE 11 Find the duals of x(y + 0) and $\overline{x} \cdot 1 + (\overline{y} + z)$.

Solution: Interchanging · signs and + signs and interchanging 0s and 1s in these expressions produces their duals. The duals are $x + (y \cdot 1)$ and $(\overline{x} + 0)(\overline{y}z)$, respectively.

					inii. The dumb me a ,
TAB	BLE 2				
х	у	z	ху	ī	$F(x,y,z)=xy+\bar{z}$
1	1	1	1	0	1
1	1	0	1	1	1
1	0	1	0	0	0
1	0	0	0	1	1
0	1	1 0	0	0 1	0 1
0	0	1	0	0	0
0	0	0	0	1	1
x — y —		<u> </u>	<i>x</i> + <i>y</i>	$\overline{x}y$	xy +
y — (a) x —	→	<i>></i> −	\bar{x}	•	$(x+y)\bar{x}$
x — (b) y — z —		→	<u>x</u>	y	+ \(\overline{z} \)



In Exercises 1–5 find the output of the given circuit.

