In-Class Activity 3

Monday, October 10, 2022 10:40 PM

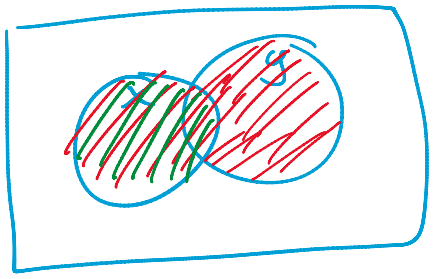
Ex 4 Q 36

Ex 5 Q 9, 12, 13, 15

Ex 6 Q 1, 6, 8, 10

Ex 4

36) $x * (x + y) = x$



$x + y$ ///

x ///

x	y	x + y	x*(x+y)		x
0	0	0	0	=	0
0	1	1	0		0
1	0	1	1		1
1	1	1	1		1

Ex 5

9) $[x(y' + z)]'$

$x' + (y' + z)'$ T15a

$x' + (y'' \cdot z')$ T15b

$= x' + y * z'$ T13

17) $[(x' \cdot 1)(\quad + z)]'$

12) $[(x'+y)(xy+z)]'$

$(x'+y)'+(xy+z)'$ T15a

$x''\cdot y'+(xy)'\cdot z'$ T15b

$x''\cdot y'+(x'+y')\cdot z'$ T15a

$xy'+(x'+xy')z'$ T14d

$xy'+x'z'+xy'z'$ L8a

$xy'+xy'z'+x'z'$

$xy'(1+z')'+x'z'$ L8a

$xy'+x'z'$

13) $x(yz'+y'z)+xy'z'$

$xyz'+xy'z+xy'z'$

$xyz'+xy'z'+xy'z$

$xz'(y+y')'+xy'z$

$xz'+xy'z$

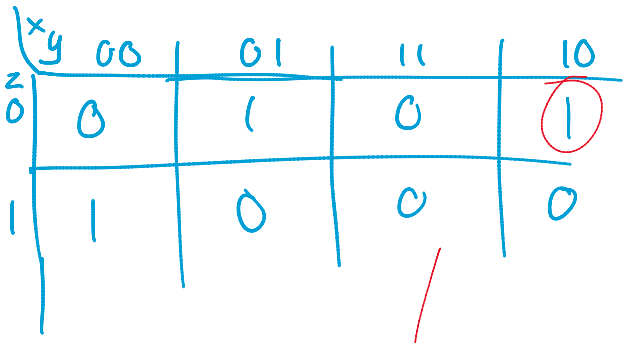
$x(z'+y'z)$

$x(z'+y')$ T14d

Ex 6

1)

x	y	z	F
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0



x =

y =

z =

x = 1

y =

z =