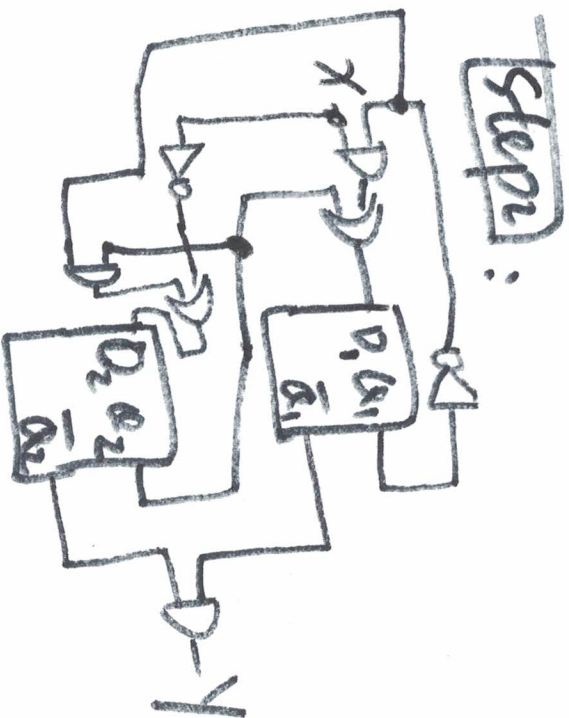
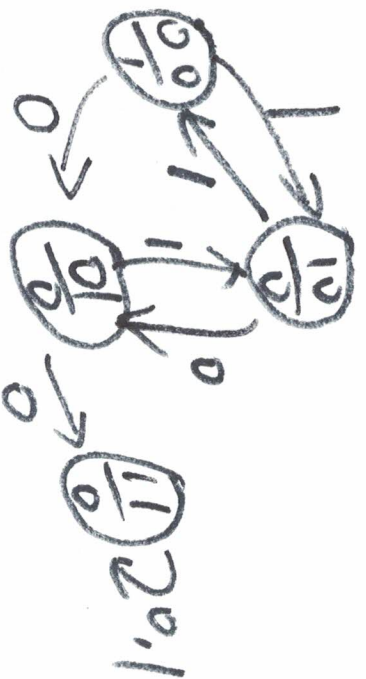


Δ Diagram → Circuit



Step 1:

x	a_1	a_2	$a_1 a_2$	y	y'
0	0	0	0	1	0
0	0	1	0	0	1
0	1	0	0	0	1
0	1	1	1	0	1
1	0	0	0	0	1
1	0	1	0	1	0
1	1	0	0	1	0
1	1	1	1	1	0

$$a_1 = x \bar{a}_1 + a_2$$

x	a_1	a_2	$x \bar{a}_1 + a_2$
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

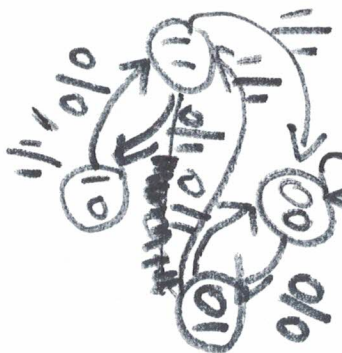
$$y = \bar{a}_1 \cdot \bar{a}_2$$

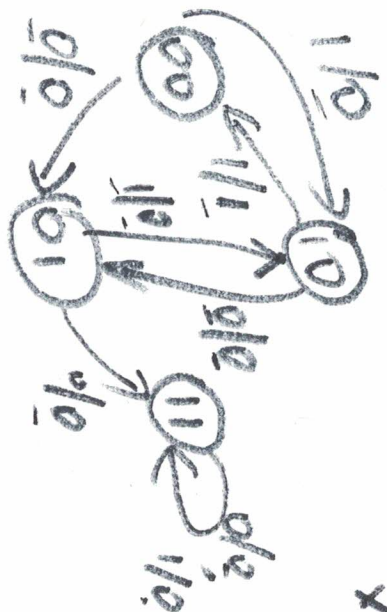
x	a_1	a_2	$\bar{a}_1 \cdot \bar{a}_2$
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

$$a_2 = \bar{x} + a_1 a_2$$

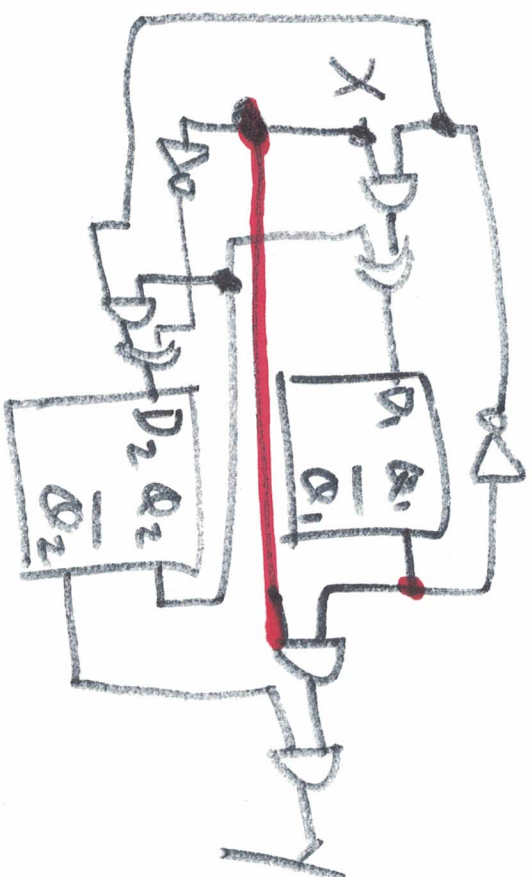
x	a_1	a_2	$\bar{x} + a_1 a_2$
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1

steps: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.


$$\begin{aligned}
 & \overline{0A} = \overline{A \cdot \overline{0B}} \\
 & \overline{1B} = \overline{A + \overline{0A}} \\
 & \overline{1} = \overline{A + \overline{0B}}
 \end{aligned}$$
$$\begin{array}{r|l} TB & AB \\ \hline 0 & AB \\ 1 & AB \end{array}$$



x/y'



Step 1:

x	a_1	a_2	a_1'	a_2'	y'
0	0	0	1	1	0
0	0	1	1	0	0
0	1	0	0	1	0
0	1	1	0	0	0
1	0	0	1	0	0
1	0	1	1	0	0
1	1	0	0	1	0
1	1	1	0	0	0

$$a_1' = x a_1 + a_2$$

$$a_2' = \bar{x} + a_1 a_2$$

$x a_1 a_2$

0	0	0	1	1	1	0
0	0	1	1	1	1	0
0	1	1	1	1	1	0
1	1	1	1	1	1	0

$\bar{x} a_1 a_2$

0	0	0	1	1	1	1
0	0	1	1	1	1	1
0	1	1	1	1	1	1
1	1	1	1	1	1	1

$y' = x a_1 a_2$

①

③