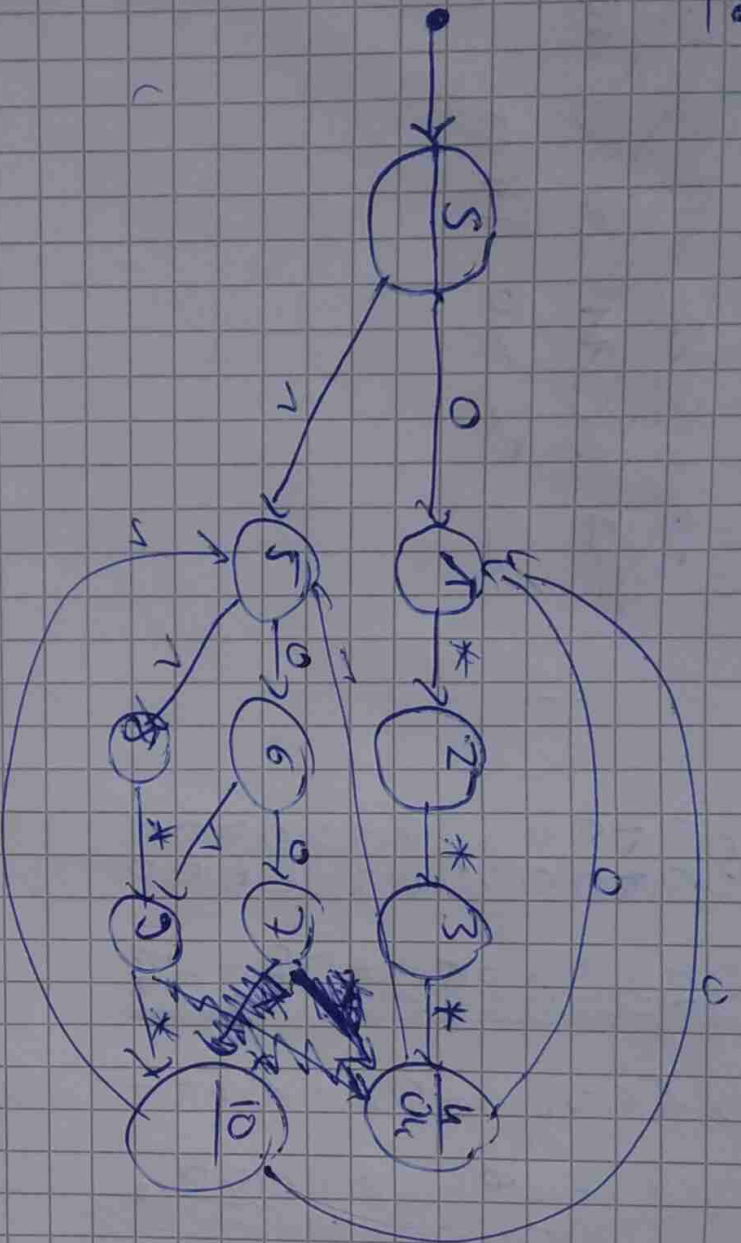


Blatt 6

A1

a)



$Z = \{ \text{5, 0, 0x, 0xx, 0x, 1, 10, 100, } \dots \}$

$\{ \text{err1, err2, } \dots \}$

$q^* Z^* Z^* \rightarrow ?$

$g(5, 0) = 0$
 $g(5, 1) = 1$
 $g(0, 0) = g(0, 1) = 0x$
 $g(0x, 0) = g(0x, 1) = 0xx$
 $g(0xx, 0) = g(0xx, 1) = 0x$
 $g(1, 0) = 10$
 $g(1, 1) = \text{err1}$
 $g(10, 0) = 100$
 $g(10, 1) = \text{err2}$
 $g(100, 0) = g(100, 1) = 0x$
 $g(\text{err1}, 0) = g(\text{err1}, 1) = 0x$
 $g(\text{err2}, 0) = g(\text{err2}, 1) = 0x$
 $g(0x, 1) = g(0xx, 1) = 1$

$$f(z) \rightarrow 2^x$$

$$f(00) = 00, \text{ 4 Bits eingeteilt} \rightarrow 11$$

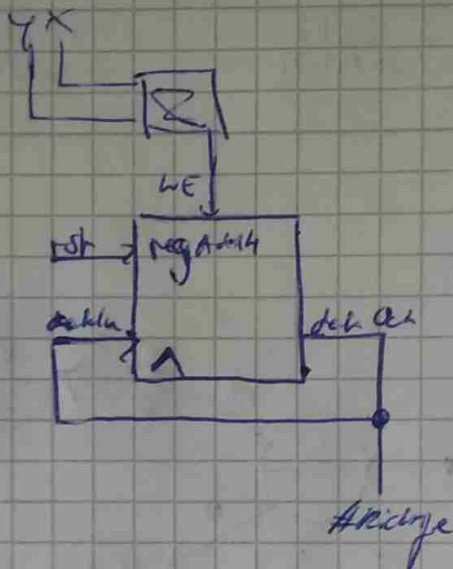
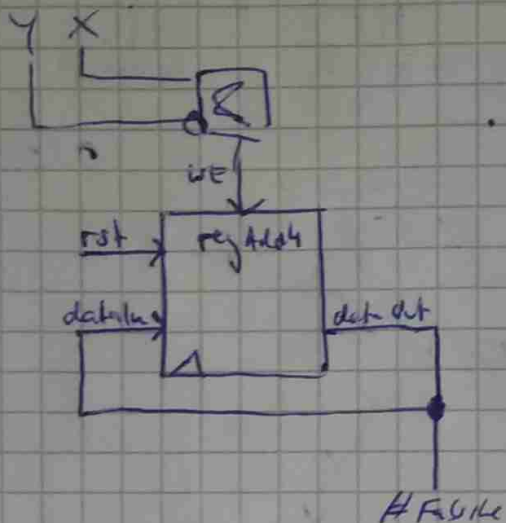
$$f(001) = 00, \text{ 4 Bits eingeteilt} \rightarrow 10$$

$$f(0011) = 00$$

$$Y = \{0, 10, 11\}$$

$$L_{\text{wik}} L_{\text{KDE}} L_{\text{KDE}} + 000$$

e)



A2 a)

Z	E	Z*	A
50	0	51	00
50	1	55	00
51	X	52	00
52	X	53	00
53	X	54	00
54	0	51	00
54	1	55	00
55	0	56	00
55	1	58	00
56	0	57	00
57	X	54	11
58	X	57	00
59	X	510	10
510	0	51	00
510	1	55	00
56	1	55	00

b) Z: 4-Bit
E: 1-Bit
Z*: 4-Bit
A: 2-Bit

~~22 x 11 = 232 Bits~~
~~22 x 11 = 232 Bits~~
 $\Rightarrow 32 \times 6$ Items