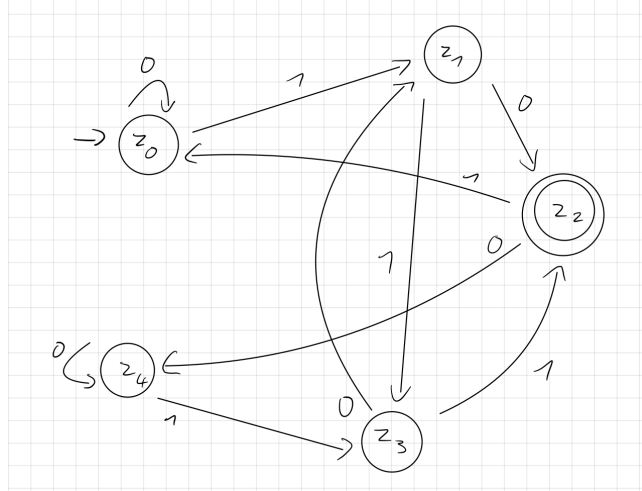


## Aufgabe 1

a



b

DEA  $A_5 = (\Sigma, Z, \delta, z_0, F)$  mit

- $\Sigma = \{0, 1\}$ ,  $Z = \{z_0, z_1, z_2, z_3, z_4\}$ ,  $F = \{z_2\}$

$$\bullet \delta(z, a) = \begin{cases} z_0 & \text{falls } z = z_0 \text{ und } a = 0 \\ z_1 & \text{falls } z = z_0 \text{ und } a = 1 \\ z_2 & \text{falls } z = z_1 \text{ und } a = 0 \\ z_3 & \text{falls } z = z_1 \text{ und } a = 1 \\ z_4 & \text{falls } z = z_2 \text{ und } a = 0 \\ z_0 & \text{falls } z = z_2 \text{ und } a = 1 \\ z_1 & \text{falls } z = z_3 \text{ und } a = 0 \\ z_2 & \text{falls } z = z_3 \text{ und } a = 1 \\ z_4 & \text{falls } z = z_4 \text{ und } a = 0 \\ z_2 & \text{falls } z = z_4 \text{ und } a = 1 \end{cases}$$