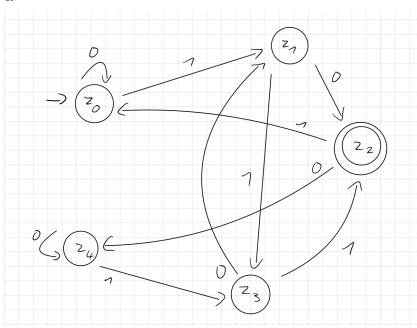
## Aufgabe 1

 $\mathbf{a}$ 



b

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

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

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