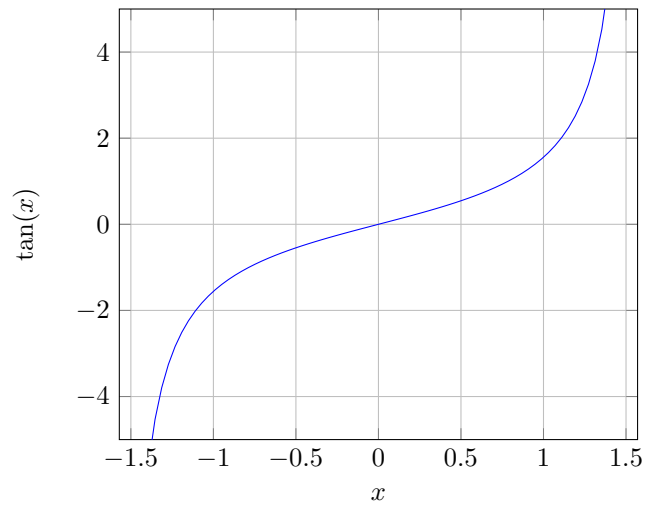
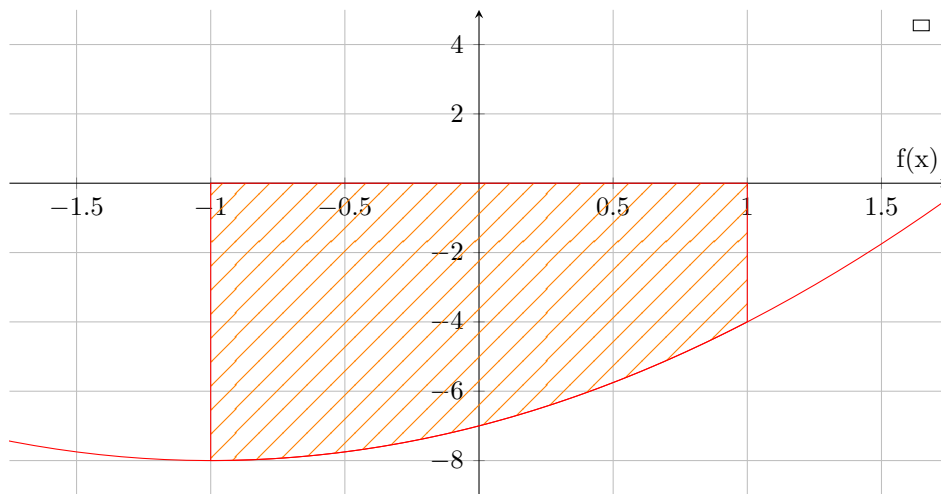


1 Simple Function



2 Definite integral

$$\int_{-1}^1 (x^2 + 2x - 7) dx \quad (1)$$

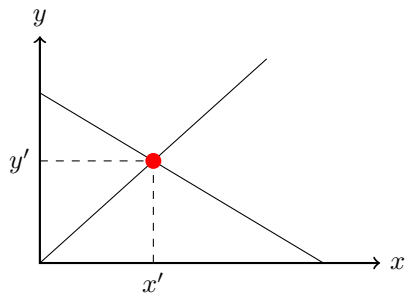


3 Colored squares

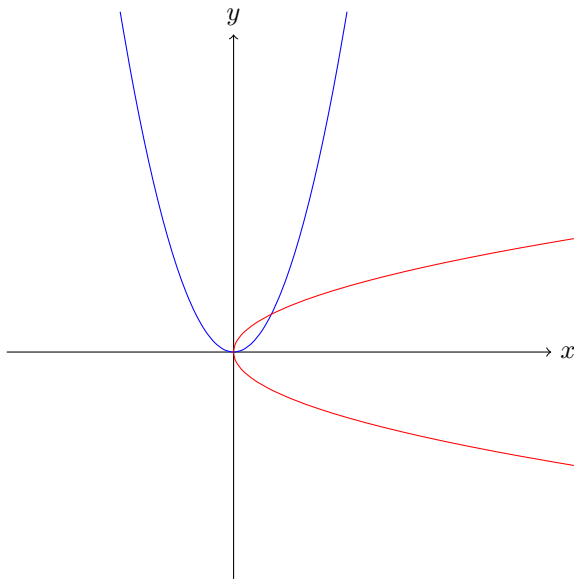
1	2	3
4	5	6
7	8	9

$\in Q_2$

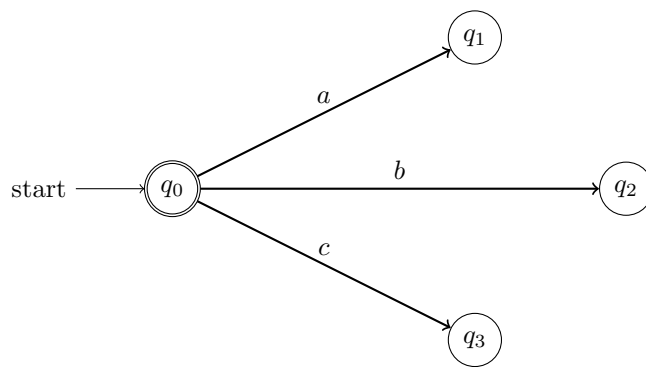
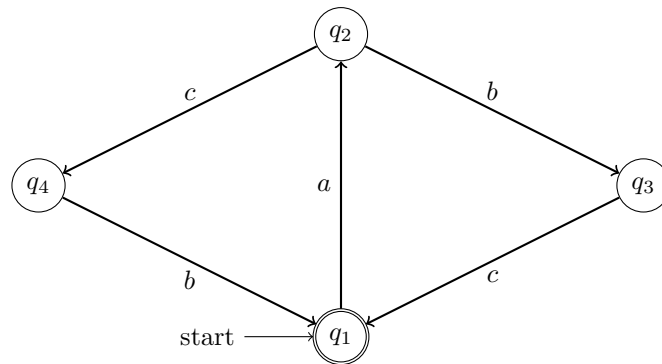
4 Intersecting lines



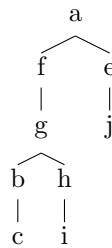
5 Functions on graph



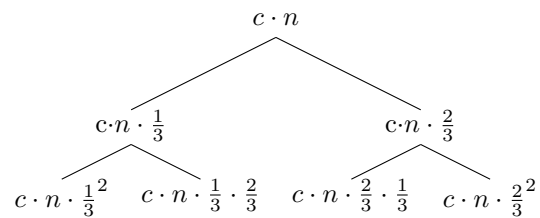
6 Finite state machines



7 Binary trees



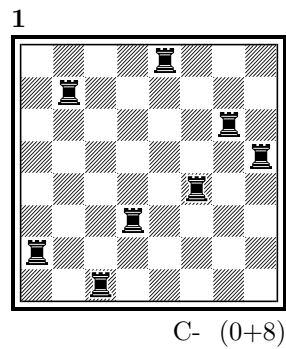
$d = a:0, e:1, f:1, j:2, g:2, b:3, h:3, c:4, i:4 \mid d: \infty$
 $\pi = a:\text{null}, e:a, f:a, j:e, g:f, b:g, h:g, c:b, i:h \mid d:\text{null}$



8 Pascal's Triangle

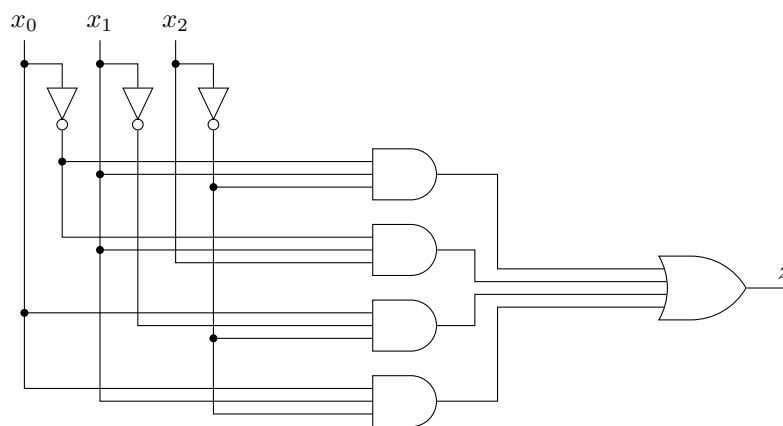
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
...

9 Chess

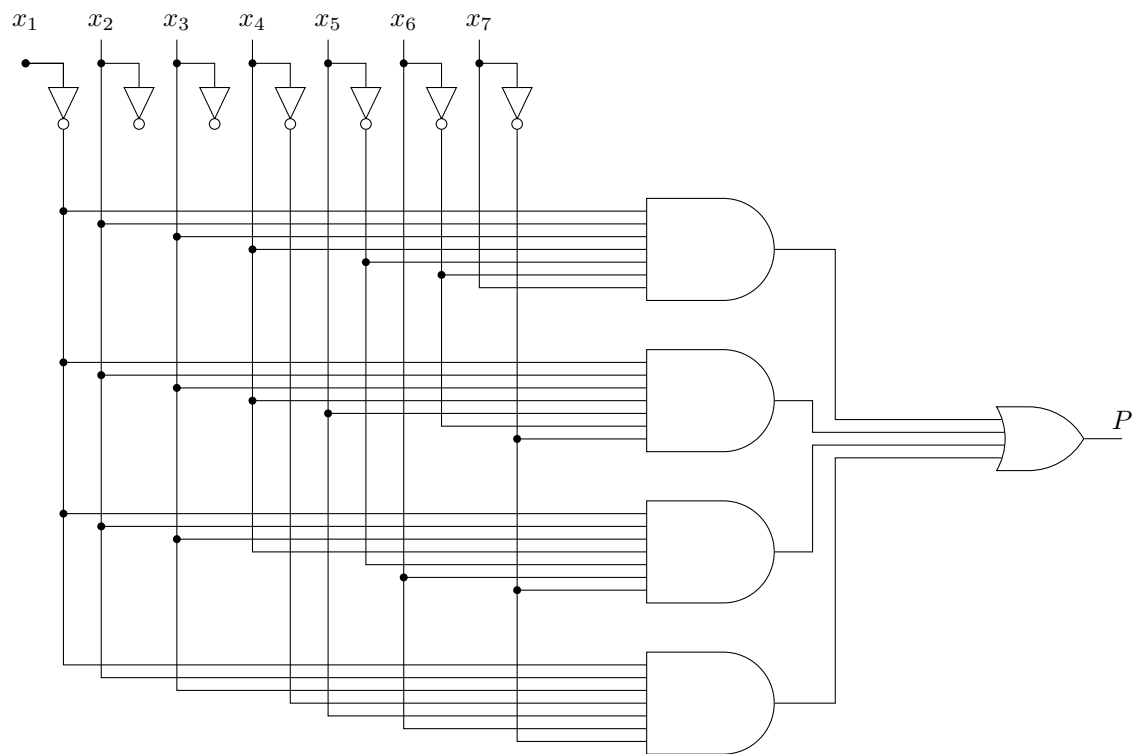


10 Logic circuit 1

$$z = (x_0 \cdot x_1 \cdot \neg x_2) + (x_0 \cdot x_1 \cdot x_2) + (x_0 \cdot \neg x_1 \cdot x_2) + (\neg x_0 \cdot x_1 \cdot x_2) \quad (2)$$

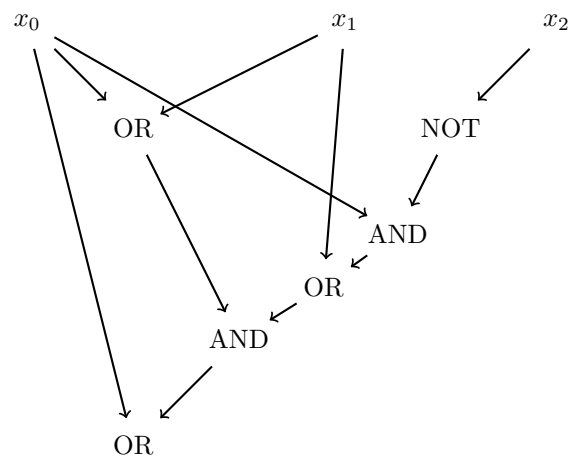


11 Logic circuit 2

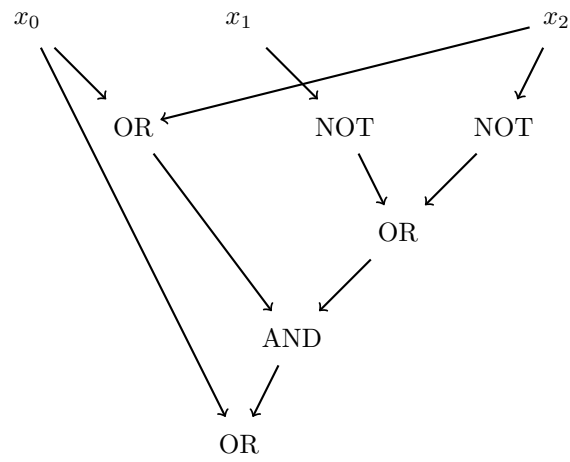


12 DAG 1

Directed Acyclic Graphs

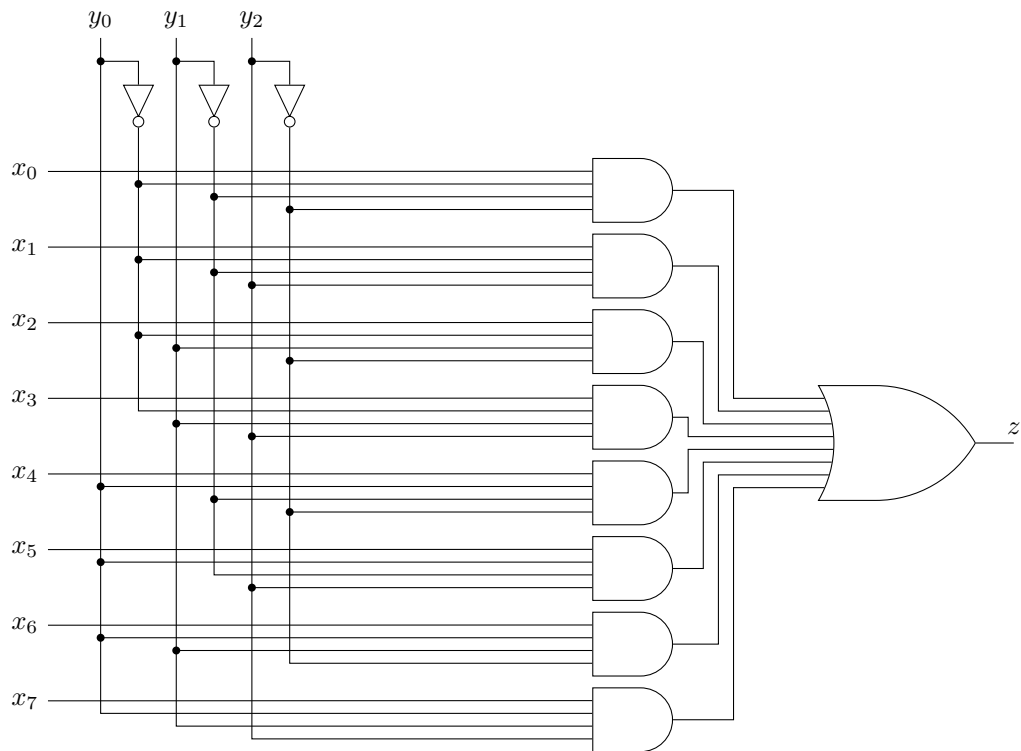


13 DAG 2

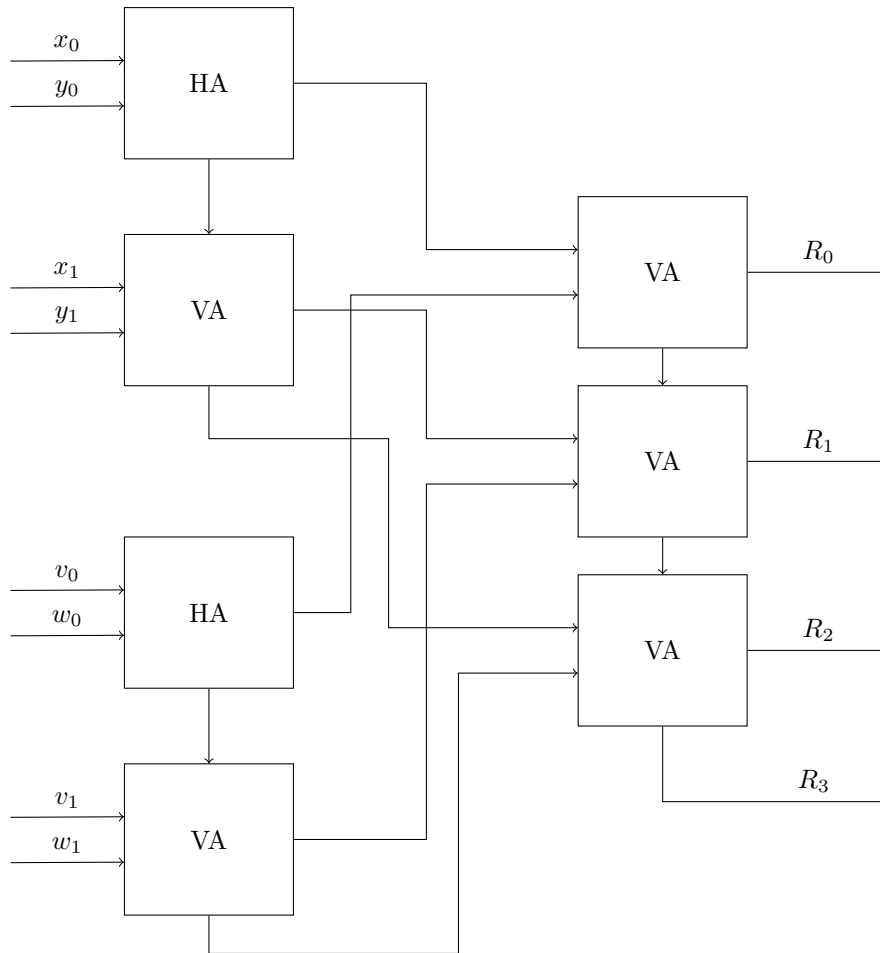


14 Logic circuit 3

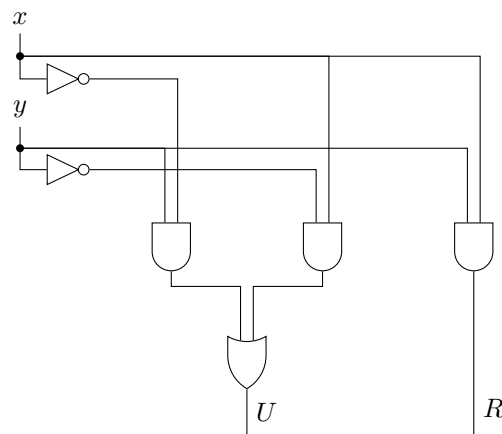
3-Mux



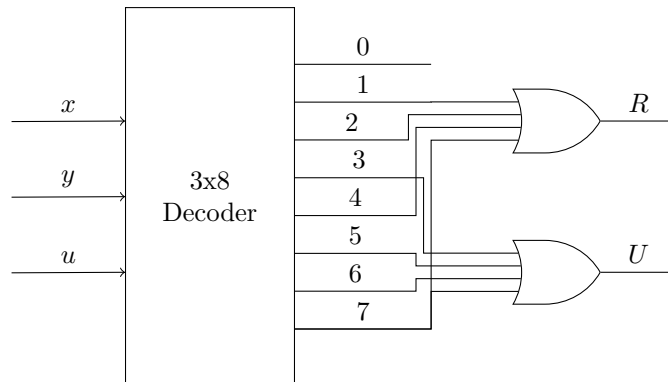
15 Addier-Netzwerk



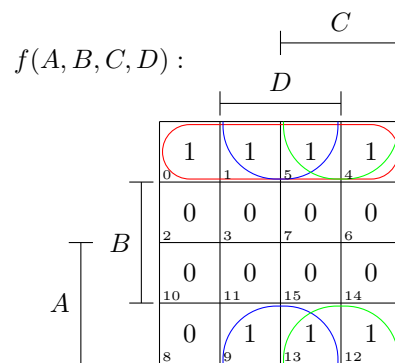
16 Halbaddierer



17 Decoder

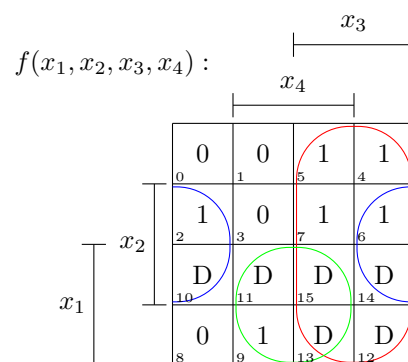


18 Karnaugh-Diagramm 1



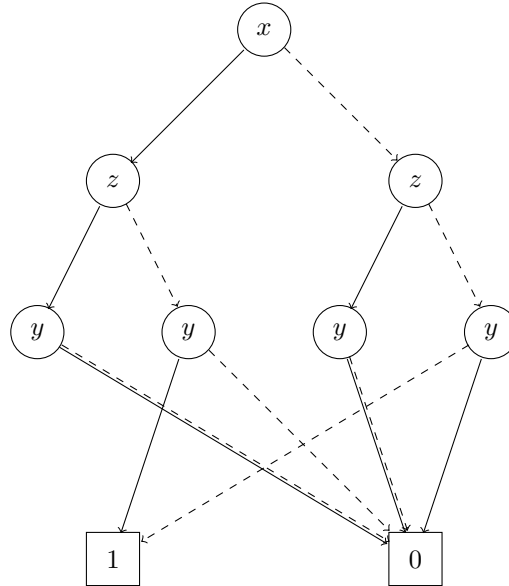
$$\neg A \neg B + \neg B D + \neg B C \quad (3)$$

19 K2

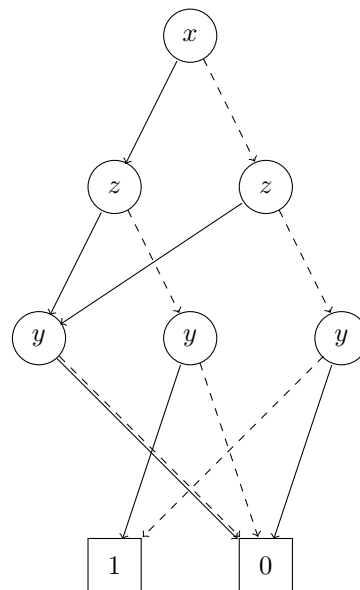


20 Ordered Binary Decision Diagrams

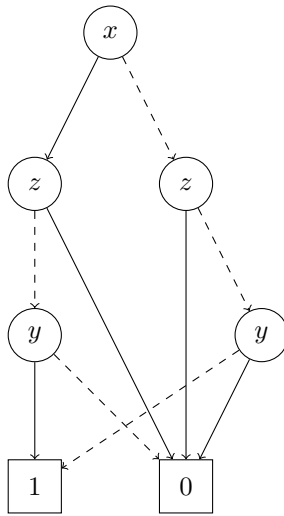
a) Graph:



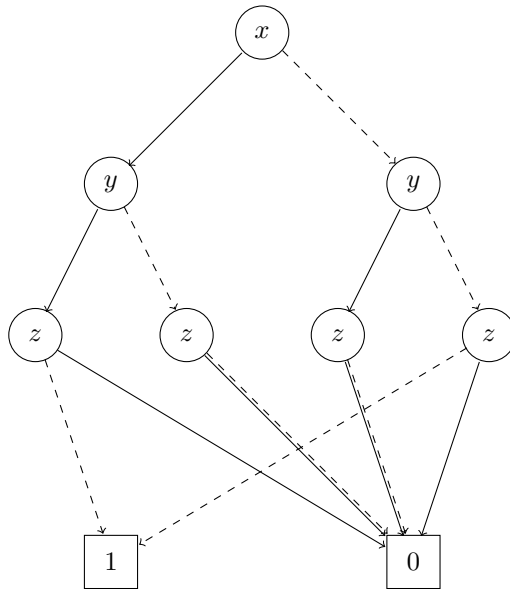
Verjüngung:



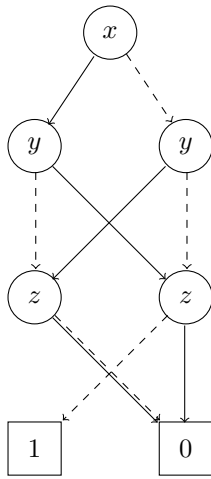
Elimination:



b) Ja, die Ordnung $x < y < z$



Verjüngung:



Elimination:

