

## Musterlösung 8. Gruppenübung

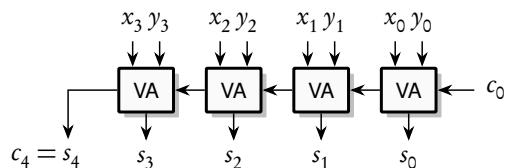
Digitaltechnik und Rechnersysteme • Wintersemester 2025/2026

### 1.1 Ripple-Carry-Addierer

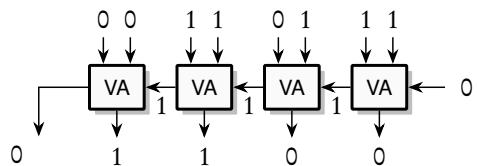
a)

$$\begin{array}{r}
 \begin{array}{c} 5 \\ +7 \\ \hline = 12 \end{array} \quad \begin{array}{c} 0101_2 \\ +0111_2 \\ \hline = 1100_2 \end{array}
 \end{array}$$

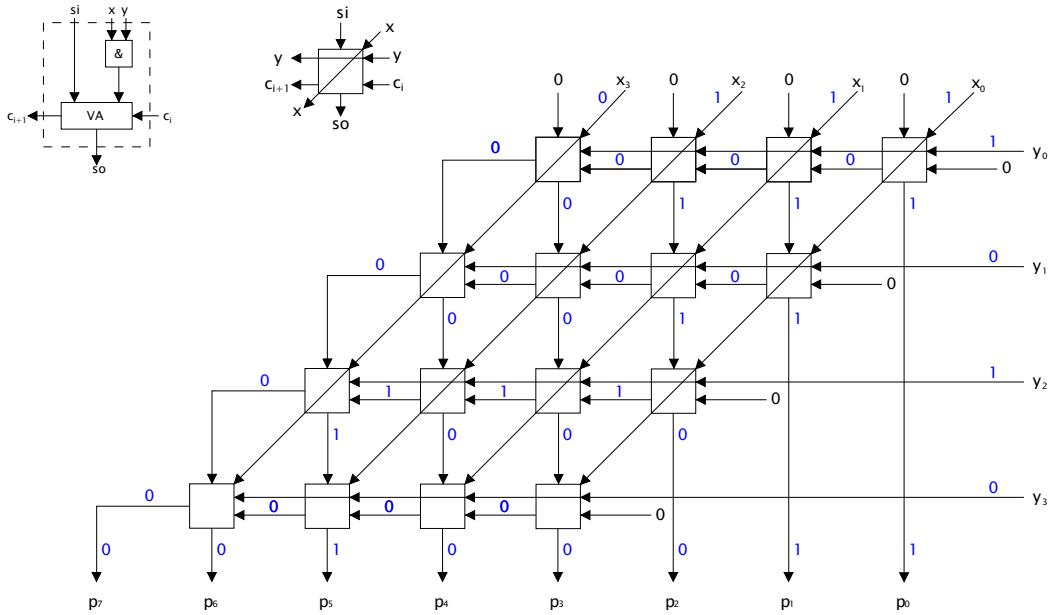
b)



c)



## 1.2 Ripple Carry Array Multiplizierer



Kontrolle mit vertauschten Eingängen:

