Exercise from cylindric extension and projections.
Exercise 5.1 Fuzzy sets $A, B$ have the following vertical representations:

$$
\begin{aligned}
& \mu_{A}(x)= \begin{cases}x, & x \in\left[0, \frac{4}{5}\right] \\
\frac{4}{5}, & x \in\left(\frac{4}{5}, 2\right] \\
\frac{4}{5}(3-x), & x \in(2,3] \\
0, & \text { otherwise },\end{cases} \\
& \mu_{B}(x)= \begin{cases}x, & x \in[0,1] \\
2-x, & x \in(1,2] \\
0, & \text { otherwise }\end{cases}
\end{aligned}
$$

- Find the cylindric extension $C:=A \times B$.
- Find its projections $P_{1}(C), P_{2}(C)$.
- Draw diagrams of the results.

