Exercises

E3.311 [05T] Let *A*, *B*, *C* sets, then

$\begin{aligned} A\times (B\cup C) &= (A\times B)\cup (A\times C) \ , \\ A\times (B\cap C) &= (A\times B)\cap (A\times C) \ . \end{aligned}$

Therefore the Cartesian product operation is distributive on the union and intersection.