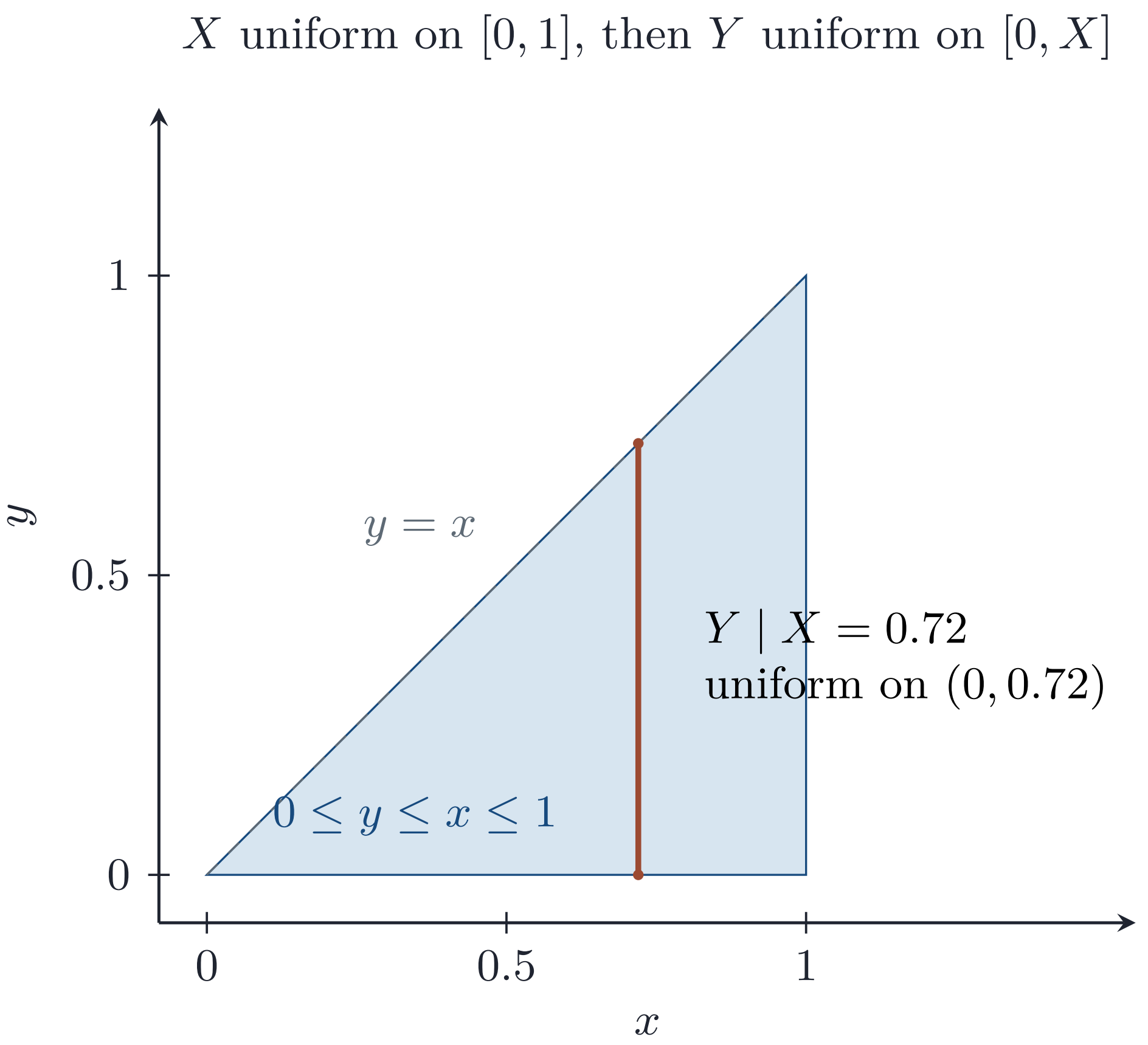

X uniform on $[0, 1]$, then Y uniform on $[0, X]$
1
0.5
0
y
0
0.5
1
x
$y = x$
$0 \leq y \leq x \leq 1$
$Y \mid X = 0.72$
uniform on $(0, 0.72)$