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[MTH402] \mathcal{B} is the lower limit topology on \mathbb{R} if $\mathcal{B} = \{[a, b) : a, b \in \mathbb{R}; a < b\}$

[MTH402] Let $\pi_1(x, y) = x$ and $\pi_2(x, y) = y$ then $\pi_1 : X \times Y \rightarrow X$ and $\pi_2 : X \times Y \rightarrow Y$. The maps π_1 and π_2 are called

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[MTH402] If τ is a topology on X , which of these is true about τ ? Finite intersections of elements of τ are in τ

[MTH402] A metric on a set X with a function $d : X \times X \rightarrow \mathbb{R}$ holds for all but one property in the following: $d(x, y) = 0$ whenever $x \neq y$ and $x, y \in X$