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[MTH402] Let \(\mathbb R\) be with the usual standard topology and let A \subsets\mathbb R\).Then A is open in \(\mathbb R\) if there exists an interval I such that I\subset A. For a,b\(\epsilon\mathbb R, I = I = (a, b)

 $\label{eq:mth402} $$ (B\)' is the lower limit topology on (\mathbb R\) if $$ (\mathbb B' = {[a,b] : a,b\epsilon\mathbb R; a<b})$$ (\mathbb B' = {[a,b] : a,b\epsilon\mathbb R; a<b})$

[MTH402] Let $(pi_{1}(x, y) =x)$ and $(pi_{2}(x, y) =y)$ then $(pi_{1}: X x Y)$ and $(pi_{2}: X x X)$ and $(pi_{2}: X x X)$ are called

Projections of X x X

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Projections of X x X

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Projections of X x X

[MTH402] The countable collection B = { (a, b) : a<b, a,b\(\epsilon\mathbb Q\)} is a _____ for a topology on \(\mathbb R\)

Basis

[MTH402] The countable collection B = { (a, b) : a<b, a,b\(\epsilon\mathbb Q\)} is a for a topology on \(\mathbb R\)

Platform

[MTH402] If (λu) is a topology on X, which of these is trueabout (λu) ? Finite intersctions of elements of (λu) are in (λu)

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

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