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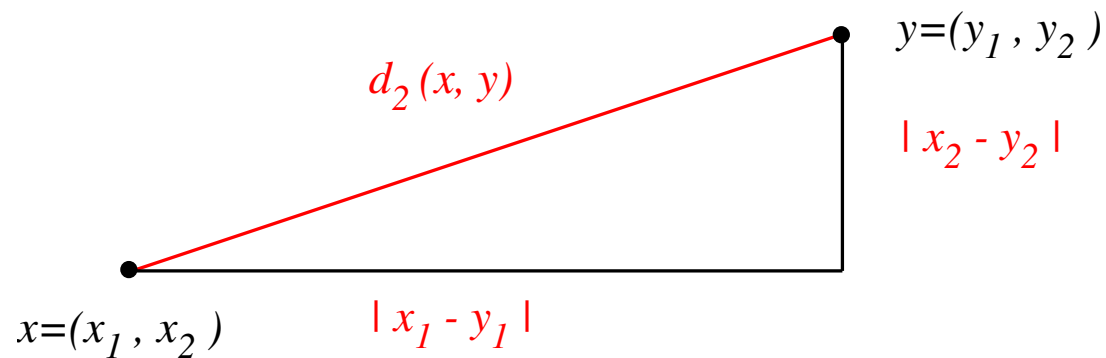
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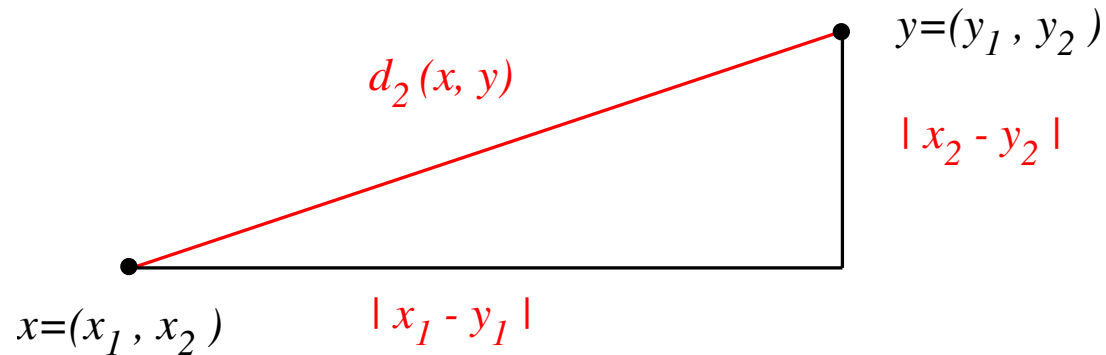
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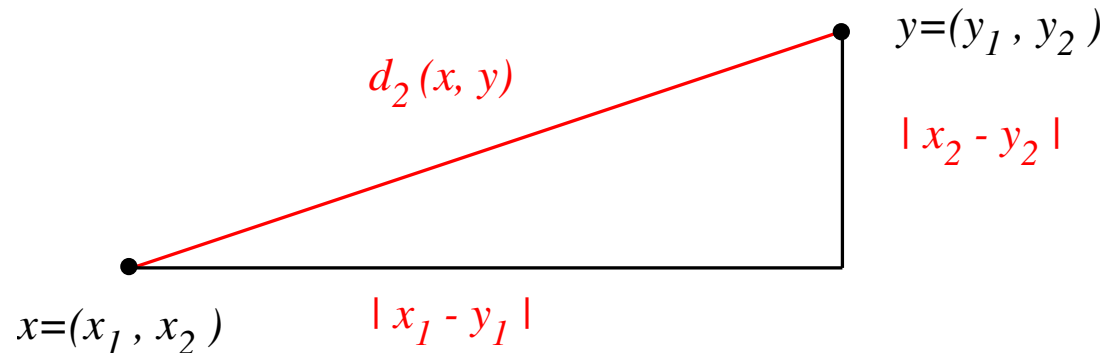
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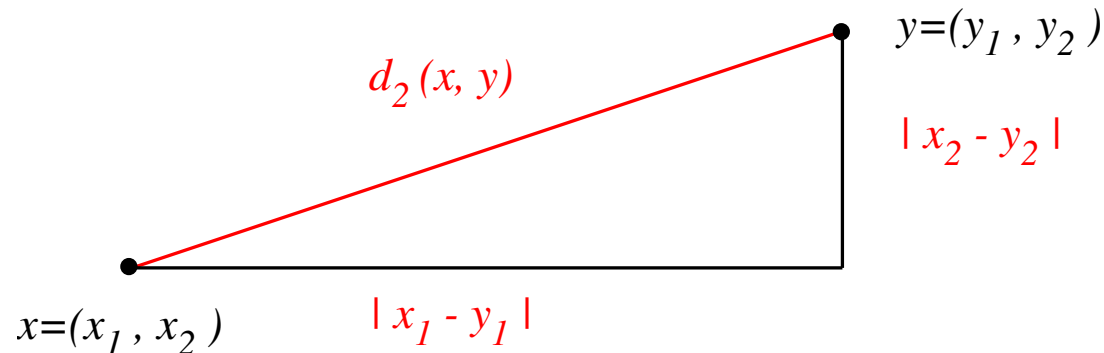
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We can define a similar metric on any finite product of metric spaces:  
if  $(X_1, d_1), (X_2, d_2), \dots, (X_n, d_n)$  are all metric spaces, then we can define a metric  $D$  on

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