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Star topology typically has an active hub with means of echo-related issues in data transfer and is often used for local networks. Routers, switches, or hubs are generally used in this network structure. The central node of the star topology becomes the router,

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switch, or hub device through which all packets pass.

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A topology is a non-empty set  $X$ , and a collection  $\mathcal{T}$  of subsets of  $X$  satisfying the following three



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axioms: (i)  $X$  and the empty set  $\emptyset$ , belong to  $\mathcal{T}$ . (ii) The union of any (finite or infinite) number of sets in  $\mathcal{T}$  belongs to  $\mathcal{T}$ .

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course will primarily use Chapters 0, 1, 2, and 3. Prerequisites. In addition to formal prerequisites, we will use a number of notions and concepts without much explanation.

## **Math 215A: Algebraic Topology**

The main method used by topological

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data analysis is to: Replace a set of data points with a family of simplicial complexes, indexed by a proximity parameter. Analyse these topological complexes via algebraic topology – specifically, via the theory of persistent homology. Encode the persistent ...

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## **Topology - Wikipedia**

### Section 20: Problem 3 Solution

Working problems is a crucial part of learning mathematics. No one can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text.

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## Section 20: Problem 3 Solution | dbFin

Solution: Let  $\tau$  be the topology on  $X$ .  
Take  $z \in \text{int}(A \times X)$ . So  $z \in O \subseteq \tau$  such that  
 $O \cap A = \emptyset$ . But then  $z \in O \setminus Y$ , which is open in  
 $Y$ , and  $O \setminus Y \cap A = \emptyset$  since  $O \cap A = \emptyset$ . Thus,  
 $z \in \text{int}(A \cap Y)$ . To see that equality need



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not hold, consider  $X = \mathbb{R}$ ,  $Y = [0;1]$  and  $A = (1=2;1]$ . We then have  $\text{int}(A X) = (1=2;1)$  whereas  $\text{int}(A Y) = (1=2;1]$ . [6 marks] Question 3

**Final Exam, F10PC Solutions,  
Topology, Autumn 2011 Question 1**  
Section 20: Problem 1 Solution

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Working problems is a crucial part of learning mathematics. No one can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text. One must work part of it out for oneself. To provide that opportunity is the purpose of the exercises.

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## **Section 20: Problem 1 Solution | dbFin**

The topology generated by  $\mathcal{B}_1$  is finer than (or, respectively, the one generated by  $\mathcal{B}_2$ ) iff every open set of (or, respectively, basis element of  $\mathcal{B}_1$ ) can be represented as the union of some

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elements of  $X$ . A subbasis for a topology on  $X$  is a collection of subsets of  $X$  such that their union equals  $X$ . The topology generated by the subbasis is the topology generated by the collection of finite intersections of sets in the subbasis as a basis.

## **Section 13: Basis for a Topology |**

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## **dbFin**

Topology I Final Exam December 21, 2016 Name: There are ten questions, each worth ten points, so you should pace yourself at around 10{12 minutes per question, since they vary in difficulty and you'll want to check your work.

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scratchwork. By default, I won't grade the scratchwork,

## **Topology I Final Exam - Department of Mathematics and ...**

The metric is one that induces the product (box and uniform) topology on  $\mathbb{R}^n$ .  
.; The metric is one that induces the

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product topology on  $\mathbb{R}^{\mathbb{R}}$ ; As we shall see in §21, if  $X$  and  $Y$  are metrizable, then there is a sequence of elements of  $X \times Y$  converging to  $(x, y)$  in the box topology if and only if  $x$  converges to  $x$  in  $X$  and  $y$  converges to  $y$  in  $Y$ . In particular,  $\mathbb{R}^{\mathbb{R}}$  is not metrizable. If  $X$  is metrizable, then  $X$  is first countable, but  $\mathbb{R}^{\mathbb{R}}$  is not first countable, so  $\mathbb{R}^{\mathbb{R}}$  is not metrizable. If  $X$  is not metrizable, then there is clearly no sequence of elements of  $X$  converging to  $x$  in the box topology.

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## **Section 20: The Metric Topology | dbFin**

HATCHER'S ALGEBRAIC  
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MONROE HARRIS Van Kampen's  
Theorem Problem 1. Suppose  $G$  and  
 $H$  are nontrivial groups. Suppose  $x = g$



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$h^{-1}g^{-1}h$  lies in the center of  $G/H$ , where  $g \in G$  and  $h \in H$ . For any  $g \in G$ ,  $h \in H$ , we have  $gh^{-1}gh^{-1} = h^{-1}g^{-1}h^{-1}gh^{-1} = h^{-1}g^{-1}h^{-1}gh^{-1} = h^{-1}g^{-1}h^{-1}gh^{-1} = 1$ . The only way for this to be true for all  $g$  is if  $h = 1$  for all  $h \in H$ .

## Van Kampen's Theorem

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Solution: Suppose  $\mathcal{A}$  is a basis for a topology  $\tau$  on  $X$ . Let  $\{ \tau_\alpha \}_{\alpha \in I}$  be an indexed collection of all topologies on  $X$  where  $\mathcal{A}$  is contained in each  $\tau_\alpha$ , and let  $\tau = \bigcap_{\alpha \in I} \tau_\alpha$  (which is a topology by exercise 13.4(a)). Suppose that  $U \in \tau$  is an open set in  $\tau$ . We infer from Lemma 13.1 that  $U$

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