Using wikis to enhance collaboration

Dana C. Ernst

Spotlight on Faculty Using Technology - 2010

What is a wiki?

What is a wiki?

Try Beta Log in / create account

article | discussion | edit this page | history

WIKIPEDIA
The Free Encyclopedia

navigation
- Main page
- Contents
- Featured content
- Current events
- Random article

search
Go Search

interaction
- About Wikipedia
- Community portal
- Recent changes
- Contact Wikipedia
- Donate to Wikipedia
- Help

toolbox
- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link
- Cite this page

languages
- فارسی

Plymouth State University

From Wikipedia, the free encyclopedia Coordinates: 43°45′32″N 71°41′21″W

Plymouth State University, formerly **Plymouth State College**, is a regional comprehensive university located in Plymouth, New Hampshire and part of the University System of New Hampshire.

Plymouth State University is a coeducational, residential university with an enrollment of approximately 4,300 undergraduate students and 2,262 graduate students. The school was founded as Plymouth Normal School in 1871. Since that time it has evolved to a Teachers College, a State College, and finally to a State University in 2003.

It was founded as a teacher's college, and it still retains a distinguished teaching program/major to this day. Since that time however, it has diversified its academic profile, adding many new majors and fields of study. The school has become known in recent years for its meteorology program (Judd Gregg Meteorology Institute), which is considered one of the best in the eastern United States, and is also strong in business, visual and performing arts, interdisciplinary studies, and psychology. Also, new majors such as Criminal Justice have been added and other programs have increased their stature, especially the natural sciences with the creation of The Center for the Environment. The university now offers a total of nineteen academic departments, with nearly forty different options within the major programs.

Plymouth State University

Motto	Ut Prosim (*That I May Serve*)
Established	1871
Type	Public
President	Dr Sara Jayne Steen
Provost	Dr Julie N. Bernier
Undergraduates	4,300
Postgraduates	2,262
Location	Plymouth, New Hampshire, United States
Campus	Rural
Colors	Green & White
Nickname	PSU
Mascot	Panther
Website	http://www.plymouth.edu/

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- "Wiki" is Hawaiian for "quick"

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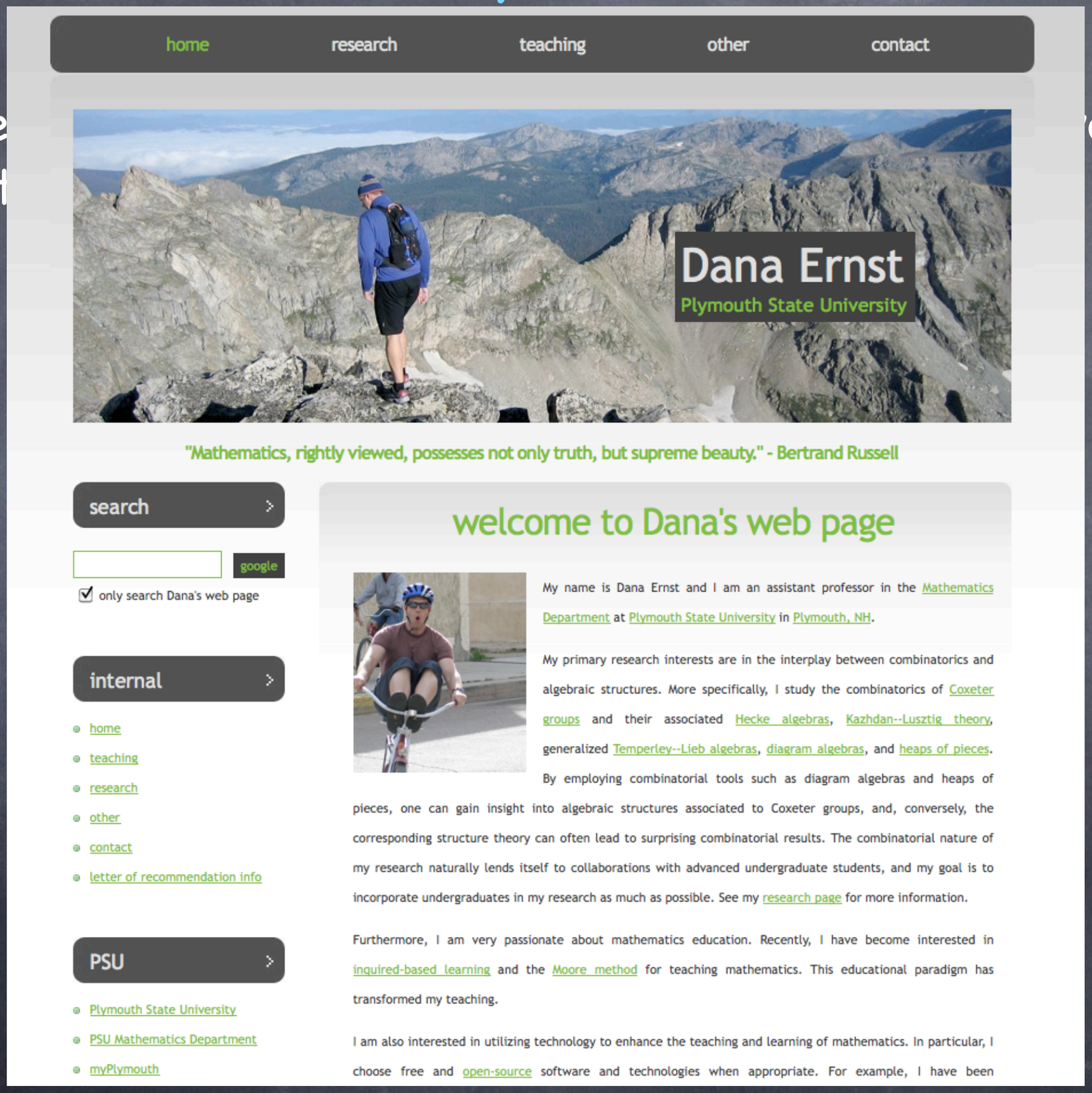
What was my motivation for

- I have [illegible] years, but I want



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Algebraic Structures (Spring 2010)

Plymouth State University

Dana Ernst | My account

course information | help | user profiles | admin stuff | Search this site | Search

course information

- syllabus
- schedule
- homework
- Sage labs
- course notes
- chapter summaries
- exams
- partner list
- group project
- textbook

help

- forum
- recent forum posts
- useful tips
- how do I typeset mathematics?
- Sage help
- Wikidot quick reference
- contact the instructor

add a new page

new page

edit source print

Algebraic Structures

welcome

Welcome to the course wiki for the Spring 2010 manifestation of MA4140: Algebraic Structures at Plymouth State University. This wiki is viewable by anyone, but content can only be added and edited by authorized users, which basically means students registered in the class.

In the Web2.0 world, more and more of reading, writing, and communicating mathematics occurs online. A major component of the course will be the course wiki at http://ma4140.wikidot.com, which will provide an opportunity for you (as students) to collaborate together, and for me (the instructor) to provide feedback visible to all.

What is a wiki, you ask? According to Wikipedia, the world's largest wiki site:

> A *Wiki* ([ˈwiː.kiː] <wee-kee> or [ˈwɪ.kiː] <wick-ey>) is a type of website that allows users to add, remove, or otherwise edit and change most content very quickly and easily.[1]

As a part of the Wikidot.com network, this site is a customizable piece of the internet where users can edit content, upload files, communicate and collaborate.

During the semester, you will use the wiki to:

1. Ask questions of your Professor and fellow students and post responses to these questions.
2. Collaboratively post content to chapter summaries consisting of definitions, theorems, and standard examples for use on the in-class portion of exams.
3. Post group projects.

Part of your grade will be based on your participation in the online wiki. I will be able to see what contributions you have made to the site, and grade you accordingly. For more information, see the course syllabus.

getting started

During the first week of classes, I will send you an invite to join the wiki. To join, you will need to sign up for a free Wikidot account. *Please use your real name when signing up.* (As a Wikidot member, you can create your own free wiki or web page.) Once you are signed up, your first task is to create a user profile. For more information, go here.

what is this course all about?

This course is an introduction to abstract algebra. Abstract algebra is the subject area of mathematics that studies algebraic structures, such as groups, rings, fields, modules, vector spaces, and algebras [2]. For more information, see the Wikipedia article located here. We will spend most of our time studying groups, but we will have an opportunity to explore additional topics in your group projects. We will take an axiomatic approach (definition, theorem, and proof) to the subject, but along the way, you will develop intuition about the objects of abstract algebra, pick up more proof-writing skills, and skills that enable you to better read, understand, and communicate mathematics. We will also discuss how the field of abstract algebra fits into the broader "picture" of mathematics and take a look at some applications. The emphasis of this course is on your ability to *read*, *understand*, and *communicate* mathematics in the context of abstract algebra.

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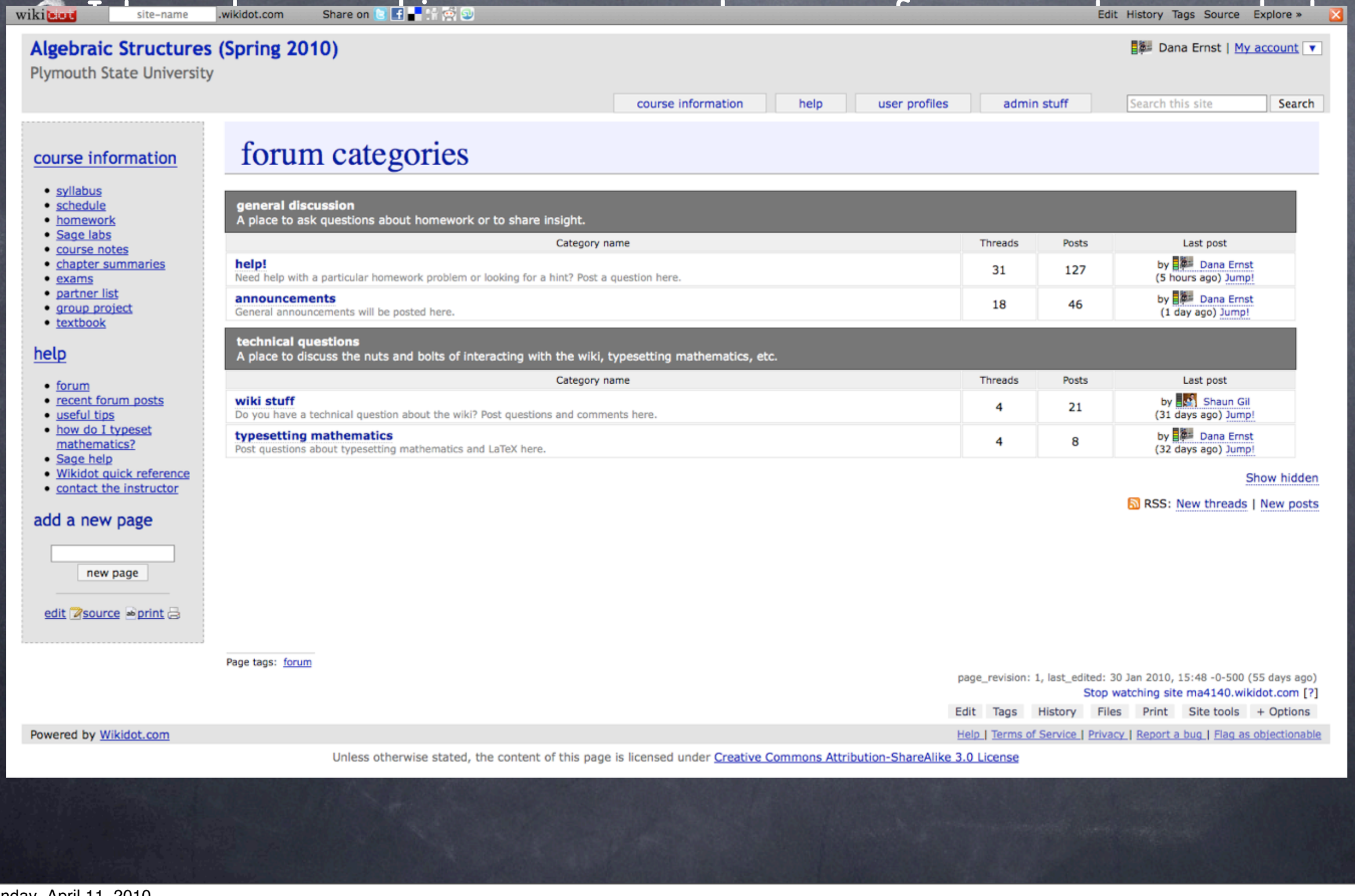

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Re: Ex 2.24 Fold

Dana Ernst 27 Feb 2010, 13:57 -0-500

What does $(aba^{-1})^n$ mean? What does $a^n b^n a^{-n}$ mean? What would have to be true in order for both of the expressions to be equal? Does the order matter? (I think you can guess what I am hinting the answer to your question is.)

Reply | Options

Re: Ex 2.24 Fold

Cathy Ajamie 27 Feb 2010, 14:54 -0-500

I guess, according to Thm 2.8, those expressions are equal only if the group is abelian, which I can't assume.

On the other hand, according to this theorem, $(g^m)^n = g^{mn}$. So, what's the deal? I have to assume $(g \cdot h)^n \neq g^n h^n$, right? The exponent laws as I know them don't work anymore?

I feel like Prop. 2.4 could be useful here, $(ab)^{-1} = b^{-1}a^{-1}$.

Cathy Fulkerson Ajamie

Options

Re: Ex 2.24 Fold

Dana Ernst 27 Feb 2010, 15:10 -0-500

> On the other hand, according to this theorem, $(g^m)^n = g^{mn}$. So, what's the deal?

The deal is that an element always commutes with itself. There's only g here!

> I have to assume $(g \cdot h)^n \neq g^n h^n$, right?

I think it would be more accurate to say that you cannot assume anything one way or the other.

> The exponent laws as I know them don't work anymore?

I was trying to jump up and down in class when I was trying to make this point. Some of the exponent laws that you are familiar with for real numbers are the way they are *precisely* because $\mathbb{R}$ is abelian. By definition, we have

$$(gh)^n = \underbrace{(gh)(gh)\cdots(gh)}_{n \text{ copies}} \tag{1}$$

And on the other hand, we have

$$g^n h^n = \underbrace{gg\cdots g}_{n \text{ copies}} \underbrace{hh\cdots h}_{n \text{ copies}} \tag{2}$$

The only way these two expression can be equal is if we can commute g and h.

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SAge lab 2 Fold
:-) Melissa Whittemore 2 Mar 2010, 16:39 -0-500

is anyone certain of what question 4 means?
(4) Which elements commute with every other element?

Reply | Options

Re: Sage lab 2 Fold
Dana Ernst 2 Mar 2010, 16:45 -0-500

Melissa & everyone else,

If an element, say $a \in G$, commutes with every other element, then this means $ax = xa$ for all $x \in G$. It's like being abelian, but you're only checking whether an individual element commutes with everything else. If the group is already abelian, then ALL the elements commutes with all the other elements. However, in a nonabelian group, some elements may still commute with every other element. Look at the group table and see if there are any rows that are identical to the corresponding column. Do you see why this is checking what I'm asking? Maybe the answer is "none." There is always *at least one* element that commutes with everything.

I hope that helps.

Reply | Options

Re: Sage lab 2 Fold
:-) mattjpalermo 3 Mar 2010, 13:04 -0-500

that actually did help. thanks dana

Options

Re: Sage lab 2 Fold
:-) Melissa Whittemore 4 Mar 2010, 12:37 -0-500

thanks Dana we were lost at that question.

Reply | Options

Re: SAge lab 2 Fold
Shaun Gil 3 Mar 2010, 22:49 -0-500

I don't know if I was sleeping in class or what but how do we know when to either add or multiply in a cayley table? This is making me have a difficult time trying to interpret the cayley table for H in the sage lab.

Reply | Options

Re: SAge lab 2 Fold
Dana Ernst 4 Mar 2010, 07:18 -0-500

Shaun, the answer is that it doesn't matter what the operation is. The table tells you how to combine any two elements of the group regardless of the operation. Since I alluded to what each of these groups is, you can figure out what the operation is, but you do not need that information to answer any of the questions. You can get everything that you need from the table.

By the way, the `x0`, `x1`, etc notation is short for x_0, x_1, etc.

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- I have … ears, but I wan…
- Ease …
- Messa…
- Open … eges
- Expos…
- Be ab…

update list

compare versions

rev.			flags	actions				by	date	comments
32.	○	◉	S	V	S			;-) Christin V	9 Mar 2010	
31.	◉	○	S	V	S	R		;-) Christin V	9 Mar 2010	
30.	○	○	S	V	S	R		Dana Ernst	9 Mar 2010	
29.	○	○	S	V	S	R		jakeross125	9 Mar 2010	
28.	○	○	S	V	S	R		;-) Jordan Libby	8 Mar 2010	
27.	○	○	S	V	S	R		jakeross125	4 Mar 2010	
26.	○	○	S	V	S	R		jakeross125	4 Mar 2010	
25.	○	○	S	V	S	R		Sarah Otis	4 Mar 2010	
24.	○	○	S	V	S	R		jakeross125	4 Mar 2010	
23.	○	○	S	V	S	R		;-) cooter	4 Mar 2010	
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21.	○	○	S	V	S	R		Jnkelly	23 Feb 2010	
20.	○	○	S	V	S	R		Dana Ernst	22 Feb 2010	
19.	○	○	S	V	S	R		Dana Ernst	22 Feb 2010	
18.	○	○	S	V	S	R		Sarah Otis	18 Feb 2010	
17.	○	○	S	V	S	R		Sarah Otis	18 Feb 2010	
16.	○	○	S	V	S	R		;-) Melissa Whittemore	18 Feb 2010	
15.	○	○	S	V	S	R		Alyson Sewell	15 Feb 2010	
14.	○	○	S	V	S	R		Alyson Sewell	15 Feb 2010	
13.	○	○	S	V	S	R		Alyson Sewell	15 Feb 2010	
12.	○	○	S	V	S	R		Alyson Sewell	15 Feb 2010	
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8.	○	○	S	V	S	R		Jnkelly	11 Feb 2010	
7.	○	○	S	V	S	R		Jnkelly	11 Feb 2010	
6.	○	○	S	V	S	R		Dana Ernst	6 Feb 2010	
5.	○	○	S	V	S	R		Dana Ernst	6 Feb 2010	
4.	○	○	S	V	S	R		Dana Ernst	4 Feb 2010	
3.	○	○	S	V	S	R		Dana Ernst	4 Feb 2010	
2.	○	○	M	V	S			Dana Ernst	4 Feb 2010	Parent page set to: "course-info:summaries".
1.	○	○		V	S			Dana Ernst	4 Feb 2010	Added tags: summaries.
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- Provide a "gentle" introduction to LaTeX

What was my motivation for

2560Notes8.7.tex

Typeset | LaTeX | Macros | AutoComplete

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\rhead{\scriptsize Approximate Integration}
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\lfoot{\scriptsize This work is licensed under the \href{http://creativecommons.org/licenses/by-sa/3.0/us/}{Creative Commons Attribution-Share Alike 3.0 License).}
\cfoot{}
\rfoot{\scriptsize Written by \href{http://oz.plymouth.edu/~dcernst}{D.C. Ernst}}
\renewcommand{\headrulewidth}{0.4pt}
\renewcommand{\footrulewidth}{0.4pt}

\begin{document}

\begin{center}
{\Large\bf Section 8.7:  Approximate Integration}
\end{center}

\section*{Goal}
In this section, we will discuss several methods for approximating definite integrals.

\section*{Introduction}
There are two situations in which it is impossible to find the exact value of a definite integral.

\begin{enumerate}

\item  In order to evaluate
      $$\int_{a}^{b}f(x)\,dx$$
using the FTC, we need to know an antiderivative of $f$.  However, sometimes this is difficult, or even impossible.

\item Sometimes when data is collected (like in a scientific experiment) all we have is discrete data points.  In this case, we don't have a formula for the corresponding function.

\end{enumerate}

Let's introduce a few approximation techniques and then we'll do some examples.

\section*{Left/Right endpoint approximation}

Recall that the definite integral on $[a,b]$ is defined in terms of Riemann sums.  If we divide $[a,b]$ into $n$ equal width subintervals, then
      $$\int_{a}^{b}f(x)\,dx=\lim_{n\to \infty}\sum_{i=1}^{n}f(x_{i}^{*})\Delta x,$$
where $x_{i}^{*}$ is any point in the $i$th subinterval.

Here's the picture:

\vfill

\newpage

If we take $x_{i}^{*}$ to be the left endpoint of the subinterval, then $x_{i}^{*}=x_{i-1}$.  In this case, we can approximate the integral using
\begin{center}
\fbox{
$\ds \int_{a}^{b}f(x)\,dx \approx \sum_{i=1}^{n}f(x_{i-1})\Delta x=L_{n}.$
}
\end{center}

Similarly, if we take $x_{i}^{*}$ to be the right endpoint of the subinterval, then $x_{i}^{*}=x_{i}$.  In this case, we can approximate the integral using
\begin{center}
\fbox{
$\ds \int_{a}^{b}f(x)\,dx \approx \sum_{i=1}^{n}f(x_{i})\Delta x=R_{n}.$
}
\end{center}

\section*{Midpoint rule}
If we take $x_{i}^{*}$ to be the midpoint of the subinterval, then $x_{i}^{*}=\frac{1}{2}(x_{i-1}+x_{i})$.  In this case, we can approximate the integral using
\begin{center}
\fbox{
$\ds \int_{a}^{b}f(x)\,dx \approx \sum_{i=1}^{n}f\left(\frac{1}{2}(x_{i-1}+x_{i})\right)\Delta x=M_{n}.$
}
\end{center}

\section*{Trapezoid rule}

There's no reason why we have to use rectangles to approximate.  Instead, let's approximate the shape of the function using straight line segments and approximate the area under the curve using the corresponding trapezoids.

Here's the picture:

\vfill
```

2560Notes8.7.pdf

Scale 155 | Page 1 of 6

Section 8.7: Approximate Integration

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Here's the picture:

- Provide a "gentle" introduction to LaTeX

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- I h…s, but I v…
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- Im…ative te…
- Ge…
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Proposition 2.5
Let G be a group. For any $a \in G$, $(a^{-1})^{-1} = a$.

Proposition 2.6
Let G be a group and $(a, b) \in G$, then
$ax = b$ and $xa = b$ have unique solutions in G.

Proposition 2.7 Cancellation Law for Groups
If G is a group and $a, b \in G$ then $ba = ca$ or $ab = ac$ implies $b = c$.

Theorem 2.8
If G is a group and $g \in G$, then we define $g^0 = e$. For $n \in N$, we define

$$g^n = \underbrace{gg \cdots g}_{n \text{ times}} \tag{1}$$

In a group, the usual laws of exponents hold; that is, for all $g, h \in$,
1. $g^m g^n = g^{m+n}$ for all $m, n \in \mathbb{Z}$;
2. $(g^m)^n = g^{mn}$ for all $m, n \in \mathbb{Z}$;
3. $(gh)^n = (h^{-1}g^{-1})^{-n}$ for all $n \in \mathbb{Z}$. Furthermore, if G is abelian, then $(gh)^n = g^n h^n$.

Proposition 2.9
A subset H of G is a subgroup iff it satisfies the following conditions:
1. The identity e of G in h.
2. If $h_1, H_2 \in H$, then $h_1 h_2 \in H$.
3. If $h \in H$, then $h^{-1} \in H$.

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Edit the page

Title of the page: **chapter 2 summary**

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```
**Theorem 2.8**
If [[$ G $]] is a group and [[$ g\in $]][[$ G $]], then we define [[$g^0=e$]]. For [[$n\in$]][[$ N $]],
we define

[[math]]
g^n=\underbrace{gg\cdots g}_{n\text{ times}}
[[/math]]

In a group, the usual laws of exponents hold; that is, for all [[$g,h\in\G$]],
1. [[$g^m g^n = g^{m+n}$]] for all [[$m,n\in\mathbb{Z}$]];
2. [[$(g^m)^n = g^{mn}$]] for all [[$m,n\in\mathbb{Z}$]];
3. [[$(gh)^n = (h^{-1} g^{-1})^{-n}$]] for all [[$n\in\mathbb{Z}$]]. Furthermore, if G is abelian, then
[[$(gh)^n = g^n h^n$]].

**Proposition 2.9**
A subset [[$H$]] of [[$G$]] is a subgroup iff it satisfies the following conditions:
1. The identity [[$e$]] of [[$G$]] in [[$h$]].
2. If [[$ h_1, H_2 \in H $]], then [[$ h_1h_2 \in H $]].
3. If [[$ h \in H $]], then [[$ h^{-1} \in H $]].
```

Help: wiki text quick reference | code snippets collection - +

Short description of changes:

Max 200 characters (200 left)

You have an exclusive 15-minute lock that will stop others editing this page while you are working. The lock expires in **783** seconds of inactivity.

Cancel | Show Changes | Preview | Save & Continue | Save

What was my motivation for using a wiki?

- I have been making my own web pages for several years, but I wanted something more interactive
- Ease of use, flexibility, & total control
- Message boards & forums
- Open content with the ability to control editing privileges
- Expose students to Web 2.0 technology
- Be able to keep track of editing history
- Improve student collaboration & expose them to collaborative technologies
- Get my students to write more!
- Improve students' ability to communicate mathematics
- Provide a "gentle" introduction to LaTeX

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- Cut down on individualized emails!

How am I using the wiki?

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- Make general announcements (mathematics seminars, scholarships, interesting nuggets of information, etc.)

How are my students using the wiki?

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- Required to create a profile page

How are my students using the wiki?

wikidot site-name .wikidot.com Share on Edit History Tags Source Explore »

Algebraic Structures (Spring 2010)
Plymouth State University

Dana Ernst | My account

course information | help | user profiles | admin stuff | Search this site | Search

course information

- syllabus
- schedule
- homework
- Sage labs
- course notes
- chapter summaries
- exams
- partner list
- group project
- textbook

help

- forum
- recent forum posts
- useful tips
- how do I typeset mathematics?
- Sage help
- Wikidot quick reference
- contact the instructor

add a new page

new page

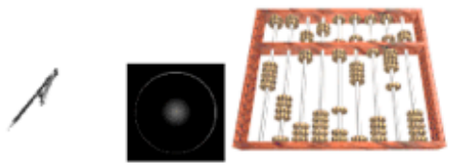
edit source print

Jacob Ross

From: Barre VT

Major: BS Mathematics secondary cert. option. I have known since the 7th grade that I wanted to be a math teacher. Algebra caught my attention at a young age and we have had a wonderful relationship ever since.

Career: High school mathematics teacher



Favorite Quotations:

"In fact, if I had to design a mechanism for the express purpose of destroying a child's natural curiosity and love of pattern-making, I couldn't possibly do as good a job as is currently being done— I simply wouldn't have the imagination to come up with the kind of senseless, soul- crushing ideas that constitute contemporary mathematics education. " Paul Lockhart

"It's fun to do the impossible" Walt Disney

"anything is possible" KG

"If you wanna be the best you got to train harder then the rest" radio ron

"If music be the food of love, play on,
Give me excess of it; that surfeiting,
The appetite may sicken, and so die." Shakespeare

"flexibility is the key to total fitness" Radio Ron

"I have told you these things, so that in me you may have peace. In this world you will have trouble. But take heart! I have overcome the world." John 16:33

Contact Info:

Email:jwross@plymouth.edu
Number:802 839-9383
AIM:jakeross125
Mailing address: 19 Highland Ave/suite 3520 Plymouth, NH 03264

Links:
http://www.plymouth.edu/math/resources/center.html
http://www.teachertube.com/
http://www.facebook.com/group.php?gid=2204911489

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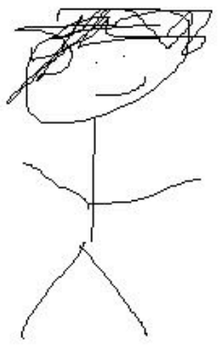
edit source print

Ian-L

1. Where are you from? New Hampshire
2. What is your major and why did you choose it? Mathematics. I am good at Mathematics.
3. What career do you hope to pursue upon graduating? Mathematics.

Here is some Mathematics I wrote:

$$a^2 + b^2 = c^2 \tag{1}$$



This is me.

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Dana Ernst (instructor and wiki admin)

about

My name is Dana Ernst and I am an assistant professor in the Mathematics Department at Plymouth State University in Plymouth, NH. I am also the administrator of this wiki. My primary research interests are in the interplay between combinatorics and algebraic structures. More specifically, I study the combinatorics of Coxeter groups and their associated Hecke algebras, Kazhdan--Lusztig theory, generalized Temperley--Lieb algebras, diagram algebras, and heaps of pieces. By employing combinatorial tools such as diagram algebras and heaps of pieces, one can gain insight into algebraic structures associated to Coxeter groups, and, conversely, the corresponding structure theory can often lead to surprising combinatorial results. I am also very passionate about mathematics education. I am an avid cyclist and rock climber and also enjoy hikes with the family and drinking copious amounts of coffee.

office hours

My office is located in Hyde 312 and my office hours will be MWF at 11:00-12:00PM and T at 1:30-2:30PM (or by appointment). Anytime my door is open you are welcome to come in and chat.

contact info

Here is how to get a hold of me.

Dana C. Ernst, Ph.D.
Department of Mathematics
Plymouth State University
MSC 29, 17 High Street
Plymouth, NH 03264

Office: Hyde 312
Phone: 603.535.2857
Fax: 603.535.2943
dcernst AT plymouth DOT edu

Note: Before sending me an email, consider whether your question or comment is appropriate for the course forum.

live chat

If you click on the link below, a Google Talk chatback window will open. You should include your name in your first message, so that I know who I'm talking to. It will appear that I am "available" more often than I really am; don't take it personally if I don't respond.

chat with D.C. Ernst
Mathematizing...

more information

For more information, see my web page located at http://oz.plymouth.edu/~dcernst/.

Page tags: chat contact danaernst help profiles

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chapter 2 summary

Definitions

Symmetry
A rearrangement of a geometric figure preserving the arrangement of its sides and vertices as well as its distances and angles.

Rigid Motion
A map from a plane to itself while keeping symmetry of the object.

Binary Operations
A binary operation or law of composition on a set G is a function $G \times G \mapsto G$ that assigns to each pair $(a,b) \in G$ a unique element $a \circ b$, or ab in G, called the composition of a and b.

Group
A group $(G, \circ)$ is a set G together with a binary operation $\circ : (a,b) \mapsto a \circ b$ that satisfies:

1. $_\circ$ is associative: $(a \circ b) \circ c = a \circ (b \circ c); \forall a,b,c \in G$.
2. There exists an identity, denoted by e (or 0 or 1): $a \circ e = e \circ a = a; \forall a \in G$.
3. For each $a \in G$, there exists an inverse, denoted by a^{-1}: $a \circ a^{-1} = a^{-1} \circ a = e$.

Identity Element
an element $e \in G$, such that for any element $a \in G$, $a \circ e = e \circ a = a$

Abelian Groups
A group G with the property that $a \circ b = b \circ a$ for all $a,b \in G$ is called abelian or commutative. Groups not satisfying this property are said to be nonabelian or noncummutative.

Non-Abelian Group
S_3 is an example of a 6 element group that is not abelian. $3!$
V_4 is a non-abelian group that is the symmetry group for a non-square rectangle: $\{e,h,v,r\}$

Subgroup
A subgroup H of a group G is a subset of G such that the group operation restricted to H (H has the same operation as G), H is a subgroup in its own right.

Proper Subgroup
If $H \leq G$ and $H \neq G$, then H is called a Proper Subgroup.

Finite of Finite Order
A group is ***finite***, or has ***finite order***, if it contains a finite number of elements. If the group is not finite then it is said to be infinite or have infinite order.

Order
The ***order*** of a finite group is the number of elements that it contains. The group G containing n elements is written $|G| = n$.
Example- The group $\mathbb{Z}_5$ is a finite group of order 5.

Theorems

Proposition 2.1
Let n be a set of equivalence classes in the integers $mod n$ and $a,b,c \in \mathbb{Z}$.
1. Addition and multiplication can be commutative:
$a+b \equiv b+a \mod n$
$ab \equiv ba \mod n$

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  - 202 posts

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Abstract Algebra Killers

Ninja's of Abstract Algebra

Search this site | Search

Homework | Study Sessions

- Welcome page
- What is a Wiki Site?
- How to edit pages?
- How to join this site?
- Site members
- Recent changes
- List all pages
- Page Tags
- Site Manager

Page tags

homework

Add a new page

new page

edit this panel

Homework 5

2.15 Step 2. Associativity.
Proof. Let $a, b, c \in S$. $S = \mathbb{R} \setminus \{-1\}$.
We see that

$$\begin{aligned}(a*b)*c &= (a+b+ab)*c \\ &= (a+b+ab)+c+(a+b+ab)c \\ &= (a+b+ab)+c+ac+bc+abc \\ &= a+b+ab+c+ac+bc+abc \\ &= a+b+c+bc+ab+ac+abc \\ &= a+(b+c+bc)+a(b+c+bc) \\ &= a*(b+c+bc) \\ &= a*(b*c).\end{aligned} \tag{1}$$

Therefore, $a*b$ is associative.QED

2.15 Step 3. Identity.
Proof.Let $a \in S$. We see that

$$\begin{aligned}&= a+0+a\cdot 0 \\ &= a\end{aligned} \tag{2}$$

and

$$\begin{aligned}0\cdot a &= 0+a+0\cdot a \\ &= a.\end{aligned} \tag{3}$$

Thus, 0 is the identity. QED

2.15 Step 4. Inverse
Proof. Let $a, b \in S$. We see that

$$a*\frac{-a}{1+a} = a+\left(\frac{-a}{1+a}\right)+a\left(\frac{-a}{1+a}\right) \tag{4}$$

collaborating on homework

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Ch

it

, and

wikidot.com | Features | Opinions | Pricing | Advertise | Sandbox | Dana Ernst | My account

Wikidot in Education

Build the perfect classroom site using:

- Wiki language for documents
- Easy collaboration
- Private sites
- Flexible security model
- Math equations in your wiki

Learn more »

"Wikidots beauty is its simplicity. The ease of creating a good looking website is absolutely outstanding. Perhaps the best thing however, is the knowledge that the developers are truly commited, and listen to the users." — **Tom Crowley**

Get it now! | Business | Education | Personal / Blog | Community | Group Projects

Blog

Code block improvements
22 Mar 2010, 19:16 -0-400 (4 days ago)

Feedback - we listen
19 Mar 2010, 12:24 -0-400 (8 days ago)

More advertising options for pro. Free sites stay ad-supported
17 Mar 2010, 04:33 -0-400 (10 days ago)

Wikidot - Going Forward
11 Mar 2010, 10:38 -0-500 (16 days ago)

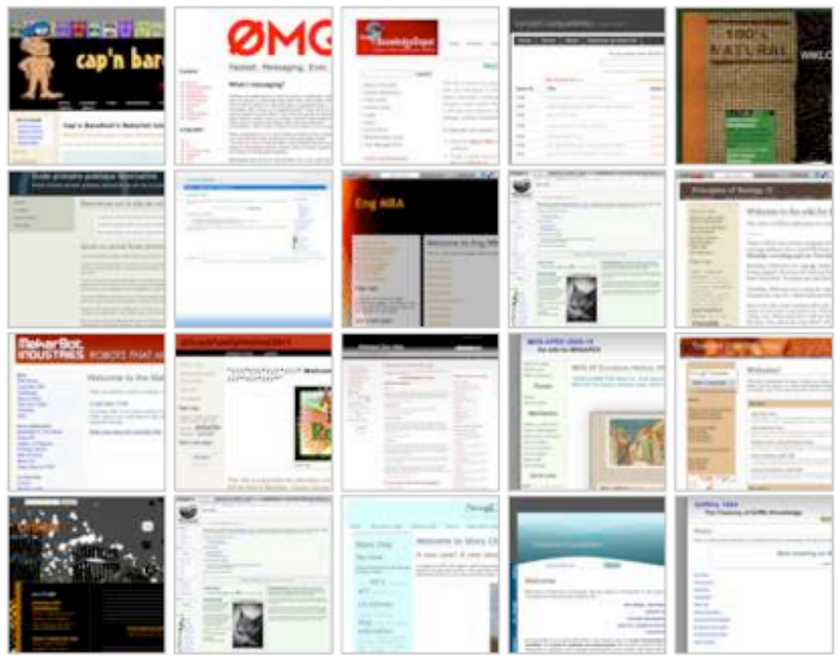
Files service migrated to new servers
8 Mar 2010, 15:15 -0-500 (18 days ago)

144 Seconds Downtime in February, Replacing Servers to Handle Growth
4 Mar 2010, 04:00 -0-500 (23 days ago)

HTML easier than ever ;-)
2 Mar 2010, 07:02 -0-500 (25 days ago)

Good Morning, Wikidot!
26 Feb 2010, 07:33 -0-500 (29 days ago)

Featured Sites



See what's hot »

Wiki Of The Week more»

New users

;-) Logodesigns 3 minutes ago
;-) quit9smoking 5 minutes ago
;-) coolfag124 5 minutes ago
;-) Bryan6 5 minutes ago
;-) KWAME A 9 minutes ago
;-) nwes5150 10 minutes ago
;-) jhornung 12 minutes ago

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Get your free Wikidot site

Getting your new free Wikidot site is simple, and takes about a minute. A Wikidot site is much more than a wiki. Wikidot gives you a rich set of 'modules', like image galleries, forums and petitions, and web widgets.

Please read the Terms of Service and especially the sections on prohibited usage.

- Your new free Wikidot site will have some basic pages, ready to edit. Here's a tip: start your site slowly, don't add pages until you need them.
- You will be the administrator of the site, and you can invite friends and colleagues to help edit the site. Wikidot lets you share the work.
- You will be able to choose a new look & feel, and change all security settings. 'Manage site' is going to be your new friend.

Site title: My Course Wiki
Appears on the top-left corner of your Wikidot site.

Tagline: This course rocks!
Appears beneath the name.

Web address: mycoursewiki .wikidot.com
Only alphanumeric [a-z0-9] and "-" (dash) characters allowed.

Site content language: English Polish

Access policy
Open — anyone can view and become member
Closed — anyone can view, but membership is restricted
Private — hidden, only members can access

Please confirm:
I have read and agree to the Terms of Service.

Get my free Wikidot site

- [ ] Pick a name

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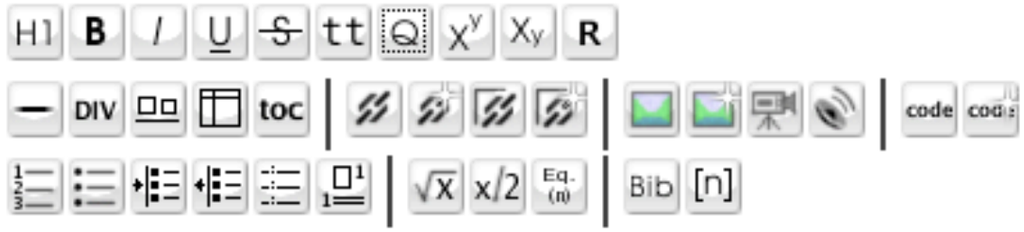
Create a new page

Title of the page: **My cool new page**



Just starting typing. You can use some of the tools above to insert pictures, videos, tables, links, math stuff, etc. Once you learn the syntax, you'll have total control.

Help: wiki text quick reference | code snippets collection

- +

Short description of changes:

Max 200 characters (200 left)

You have an exclusive 15-minute lock that will stop others editing this page while you are working.
The lock expires in **875** seconds of inactivity.

How do you get started making your own wiki?

- Choose a "wiki farm"
  - I chose to use WikiDot at http://wikidot.com because it has free hosting (no installs!), excellent documentation, and support for LaTeX
  - Other wiki platforms include pbwiki, Mediawiki, docuwiki, Wetpaint, and Moodle
    - May require server installation
    - Some require a plugin to get LaTeX working
    - Some have WYSIWYG editors
- Create the site
  - Pick a name
  - Select general access privileges (can get more fancy later)
  - Start creating and editing pages

Let's go play!

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My wiki is located at

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http://ma4140.wikidot.com