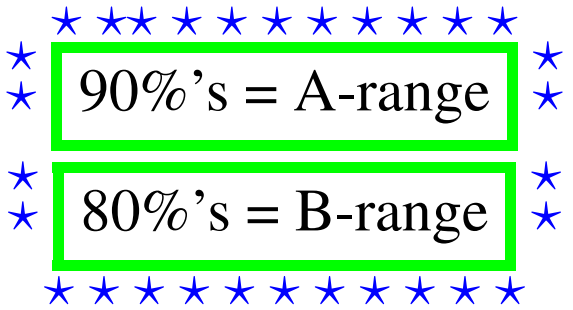
Welcome to class!

with Prof. D'Ambroise

High Expectations

Grading Standards



74-79% = C or C-plus = passing

70-73% = C-minus = failing
60%'s = D-range = failing
below 60% = F = failing

All students are held to the same high standards regardless of job/home/other class responsibilities.

Grading Standards

Aiming to surpass is the best strategy!

90%'s = A-range

80%'s = B-range

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Failing Mentality
(for lack of a better word)

- go to class
- do assignments
- take exams

Mentality for Success: learn to engage & think in new ways

- prepare in advance
- go to class
- discuss with your peers & communicate with prof.
- do assignments
- think, ponder, ask questions, review, revise
- take exams
- be realistic & evaluate your progress honestly

Be prepared to work outside your comfort zone!

You will need to master...

BIG IDEAS (big scale)

- how math relates to real life
- how to read and interpret math
- understanding different presentations of the same information

STEPS OF PROBLEMS (small scale)

- algebra
- trig
- graphing functions
- prerequisite material
- new material

Communication is key

Office hours

- basic algebra questions
- basic trig questions
- basics about how to graph a function
- questions about prerequisite material you forgot
- questions about what we are currently covering
- questions about your major / your life goals, etc.
- and more!

Math is vast!

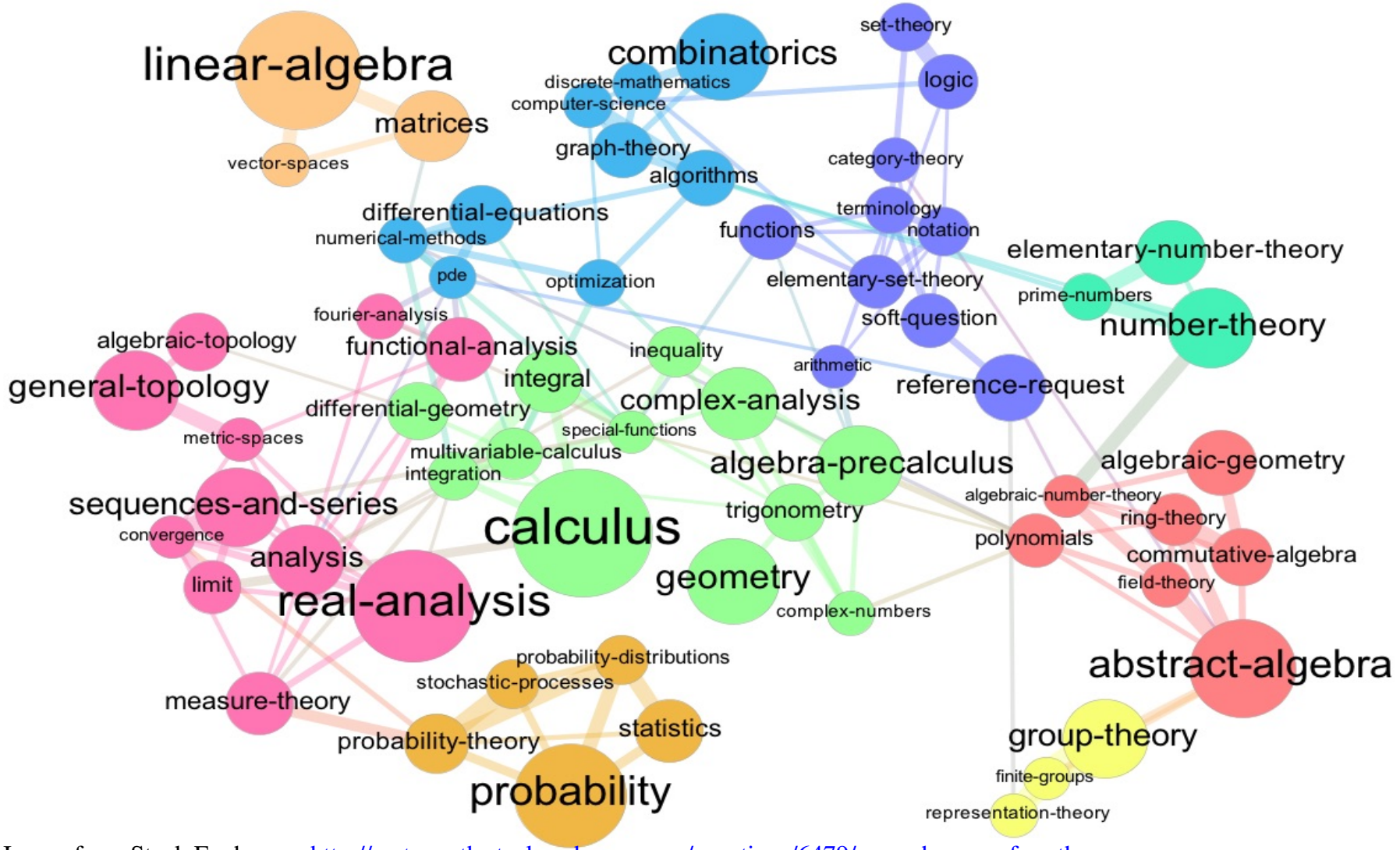

Image from Stack Exchange: http://meta.math.stackexchange.com/questions/6479/a-graph-map-of-math-se

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If you use outside resources you must follow up with
reading the book, coming to office hours,
and interacting with *our* course material.

Only your Prof. can tell you what WE focus on in THIS class!

Harmful Math Stereotypes

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BREAK THE CYCLE
by working hard
and learning to communicate & ask for help.

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false beliefs about your abilities.
Work hard and LEARN HOW to read a math textbook.

Tips: Skipping around is recommended for math!
(math textbook $\neq$ novel)
Be persistent, ask questions, take notes.
Actively engage, don't be passive.

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  False.
  Math is an acquired skill that takes
  hard work and dedication.

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Don't handicap yourself by shutting out peers, the prof., tutors, etc..

Communication is essential to learning math!

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  There are NO dumb questions in this class!
  Students asking questions are showing initiative!
  The Prof. loves working one-on-one for the best result!

Mentality for Success

Too proud to get help?

Too scared to get help?

Too busy to get help?

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You're at risk for failure.

Advice From Students

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This class is a commitment.
Plan wisely.

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WHY?

There is A LOT of information in this class.

Quick summaries help to reduce the cognitive load.

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Other students can help when you don't understand.
Helping others will increase your math confidence!
You'll see other students have the same questions.

- ... a quick meeting with the Prof. actually cleared up things I had been confused about for months."

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  WHY?

  After over a decade of teaching, the Prof. has seen many many students struggle and succeed past the same issues you are dealing with !

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5. (decent outcome: A or B) **Mastery:** (rare) mental energy no longer needed to produce nearly perfect results

Memes


UniqueTeachingResources.com
"Life begins at the end of your comfort zone."
~ Neale Donald Walsch


There is no elevator to success.
You have to take the stairs.
Unique Teaching Resources

Everyday

The next few pages are designed for courses with online HW.

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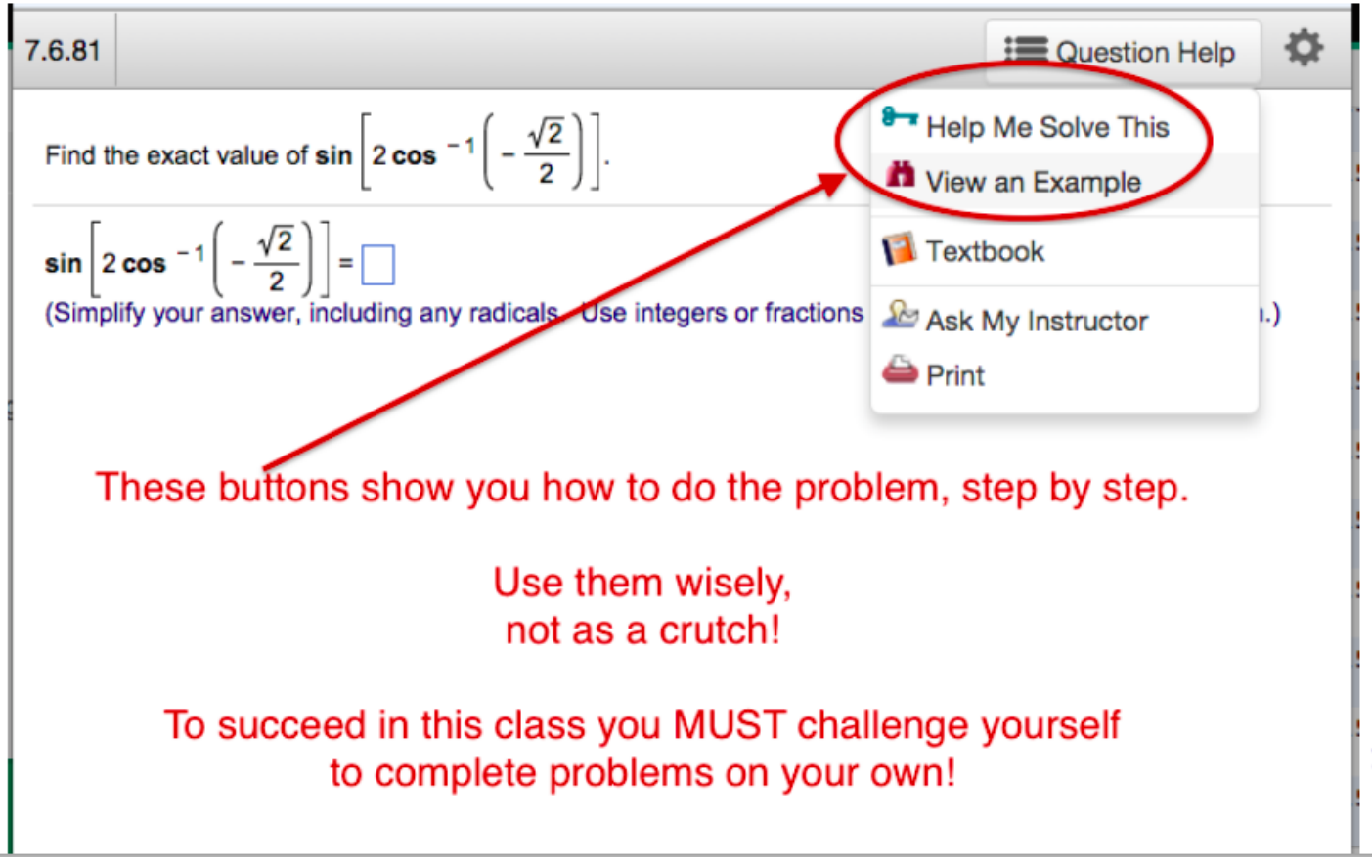
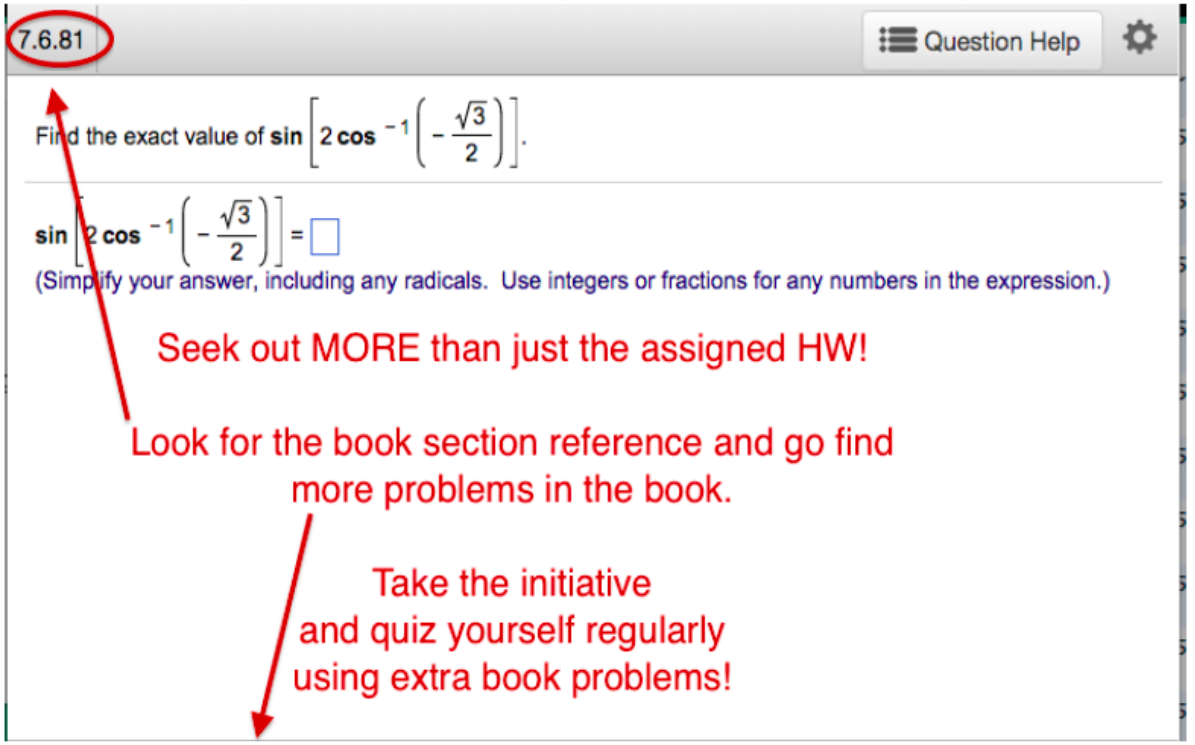
You cannot surpass novice level if you rely too heavily on provided instructions.



You cannot surpass the competence level if you don't test yourself frequently.



In Problems 81–92, find the exact value of each expression.

81. $\sin\left(2\sin^{-1}\frac{1}{2}\right)$ **82.** $\sin\left[2\sin^{-1}\frac{\sqrt{3}}{2}\right]$ **83.** $\cos\left(2\sin^{-1}\frac{3}{5}\right)$ **84.** $\cos\left(2\cos^{-1}\frac{4}{5}\right)$