

M 408C - Differential and Integral Calculus

Week 01

Quest HW 00 - Due Friday at 11:30p.

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Introduction Module Assignment - Due Friday at 11:30p on Gradescope.

Textbook HW 01 - Due Friday at 11:30p on Gradescope

§1.4, #2, 3

§1.5, #3, 4

Additional Things:

#1) The function $f(x) = 2x + 4^x$ is 1-1. Find $f^{-1}(6)$. *Hint: Don't try to find $f^{-1}(x)$.*

#2) Watch this video:

<https://www.youtube.com/watch?v=qfYQUUC3F5I>

Hungry yet?

#3) Watch this video:

<https://www.youtube.com/watch?v=VRzH4xB0GdM>

Now go give your calculator a hug.

#4) There's a lot to work on this week and working with classmates can make this more tolerable (maybe even fun!) Make a group of 2-5 people and work on some math HW together. Take a picture so I can see everyone's face and where you are. Submit the picture with your Textbook HW 01 on Gradescope for 10 additional points. Each person must submit a picture.

Here are some places to check out:

1. The EER building

2. The STEM area in the PCL

3. Book a study room in the PCL:

<https://www.lib.utexas.edu/study-spaces-technology/reserve-study-room>

4. The SAC

5. The picnic tables outside Gregory (if it's nice outside)

6. Any empty classroom in any building. Clean up after yourself and leave the room exactly as you found it.

7. Texas EXpresso cafe, in the Texas Exes building, near the stadium

8. Castillian Study Area

9. Engineering Energy Building (GLT)

If you find other places for groups to study please let me know and I will add to this list for future semesters! Just write them down of your HW after your group picture.