LARSON—MATH 255–HOMEWORK WORKSHEET h01
Getting Started.

1. Create a Cocalc/Sage Cloud account.

   (a) Start the Chrome browser.

   (b) Go to `http://cocalc.com`

   (c) "Create new account" using **your VCU email address** .

   (d) You should see an existing Project for our class. Click on that.

   (e) Click "New", then "Sage Worksheet", then call it **h01**.

   (f) For each problem number, label it in the Sage cell where the work is. So for Problem 1, the first line of the cell should be `#Problem 1`.

2. Find $900(1 + .06(90/365))$.

3. Find 47^2.

4. Find $550\dfrac{[1 + (1.05)^{-30}]}{0.05}$.

5. Find an exact expression for $\sqrt{153}$.

6. Find a decimal approximation for $\sqrt{153}$.

7. Find $\sqrt[6]{153}$.

8. Find i^{21}.

9. Fnd a 10-digit decimal approximation for π.

10. Find a 10-digit decimal approximation for $\sqrt{2}$.

11. Find a 10-digit approximation for e

12. Find a 10-digit approximation for e^3

13. Find $\log 10$ (here, log means ln).

14. Find $\log_{10} 111$.

15. Find $\cos \frac{\pi}{3}$

16. Find $\tan \frac{\pi}{4}$.

17. Find arcsin $\frac{1}{2}$

18. Find $\sin 87°$, and a decimal approximation.

19. Sketch the graph of $x^2 - 9$ on the interval $(-5, 5)$.

20. Sketch the graph of $|x - 1|$ on a "nice" interval.

21. Sketch one period of $\sin x$.

Getting your homework recorded

When you are done writing up your nicely annotated code examples...

(a) Click the Printer-icon button and make a pdf of this worksheet. (If Cocalc hangs, click the *File* button, then Save-and-Download as pdf

(b) Send me an email with an informative header like "Math 255—h01 worksheet attached" (so that it will be properly recorded).

(c) Remember to attach your homework worksheet pdf!