CS1 - Math-Circle-Lab Possible Points: 100

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**Math – Circle – Lab**

Write a C++ program that calculates area and circumference of a circle whose radius is entered by the user when prompted.

**Lab Instructions**

1. Create a folder called **circle** inside labs folder in your CS1-...repository
   1. Inside the circle folder, create two files: **main.cpp** and **Makefile**
2. Add new files to git repo; commit and push
3. Do **add; commit** and **push** as often as possible after every major improvement or any addition to your program so you are familiar with the commands and have a working backup on github.com!
4. Use the starter code stub main.cpp in **CPP-Fundamentals->labs->math->circle** folder as a hint to complete the lab
5. Type, fix and use the Makefile to build and run the program
6. Never copy paste code; you’ll not learn anything by taking a shortcut!
7. Type some lines of code and use **incremental development** techniques to learn what the new code does; continue the process until you complete your lab.
8. Fix all the FIXMEs and write #fixed# at the end of each code FIXME that’s fixed except at the end of your name and date.
9. Run and test your programs many times.
10. Create a screenshot and add it to the repository showing the complete run of your program. (**10 points**)
11. Update your README file **(10 points)** as shown here: <https://github.com/rambasnet/csci000-astudent>
12. All FIXMEs are worth equal points unless stated otherwise.

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**Submission**

1. Add all the relevant source file(s) and documents into the correct folder and do a final add, commit, and push before the due date.
   1. $ git pull
   2. $ git status
   3. $ git add <filename>… - add each file that was new or modified that is part of this assignment
   4. $ git status
   5. $ git commit -m “Final Submission”
   6. $ git push
   7. $ git status
2. Check and make sure the files are actually pushed to your GitHub repo on github.com.
3. NOTE: Do not add and commit to this lab folder after the due date as it may be considered late submission!