

Prepare for the midterm exam by working practice problems found on the Schedules and Downloads page under class 10. You do not need to turn anything in for this homework assignment.

Also, remember to look on the Schedules and Downloads page to confirm the time and place of your exam!

DUE BY CLASS 12: Please be aware that you will need to design and draw a centrifugal impeller using SolidWorks for the pump project. Although, this assignment is not due until Class 12, you should consider starting on this soon. You can find a tutorial on drawing impellers on your downloads page under Class 9. The assignment is as follows:

- **Individual:** Design and draw your own centrifugal pump impeller using SolidWorks.
- **Individual:** Save the file as a part file (SLDPRT) and as a STL file (.stl) using the following naming convention:
 - a. first initial, underscore, last name .SLDPRT example: **j_doe.SLDPRT**
 - b. first initial, underscore, last name .STL example: **j_doe.STL**

*To save the .STL file, you will need to go to **File > Save As > Save as type:** and choose “**STL (*.stl)**”. Then click on **Options**, and enter **0.001 in** for the “Deviation” tolerance and **2.000deg** for the “Angle” tolerance. This will ensure that your STL file produces a “smooth” part when it prints. Print out a picture of your impeller and turn it in with your homework.*

- **Groups of Two:** Choose one impeller (only one impeller can be submitted per group of two) to submit for printing.
- **Groups of Two:** Email your instructor the SLDPRRT and STL files for printing.
- **NOTE:** Be sure to exit SolidWorks before sending your file. The instructors have had trouble in the past reading SolidWorks files; we believe that sending a file that has not been properly closed may render it unreadable.