Math 1552 Summer 2023 Supplementary Problems for Final Exam Practice

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	Teaching Assistant/Section:	

Name (Print):

By signing here, you agree to abide by the **Georgia Tech Honor Code**: I commit to uphold the ideals of honor and integrity by refusing to betray the trust bestowed upon me as a member of the Georgia Tech Community.

Sign Your Name: _____

Please clearly organize your work, show all steps, simplify all answers, and BOX your answers.

- 1. Set up an integral which will compute the volume of the solid obtained by revolving the triangle with vertices (3,3), (7,3), (7,7) about
 - (a) the x-axis using the washer method,
 - (b) about the line x = 1 using the cylindrical shell method,
 - (c) the y-axis using the cylindrical shell method, and
 - (d) the line y = 8 using the washer method.

Set up the integral but do not integrate or simplify!

2. Set up an integral which computes the area between the curves $y = -x^2 + 3$ and $y = x^2 - 3$. Set up the integral but do not integrate or simplify!