

Review Problems for Chapter 7.

Volume of Solids of Revolution:

Disc/Washer Method: pg 461 #5,7,9,11

Shell Method: pg 470 #5,7,9,11,15,17,19,21

Arc Length:

pg 481 #21,23,24,25,26

Lateral Surface Area of Solid of Revolution:

pg 482 # 39, 40, 43, 44

Work:

Spring: pg 491 #9, 11, 13

Emptying Tank of Liquid: pg 491 #21, 23, 25

Center of Mass of Planar Lamina:

pg 502 #15 – 23

Fluid Force on a Vertical Surface:

pg 509 #9 – 18

Note: For each of these you will be required to set up the integrals required for the computations, with the exception of Work Done by a Spring. You will need to evaluate the integrals for this problem type.