

Homework # 4.

1. Let $y = \frac{1}{2}x^2 + 1$, $2 \leq x \leq 4$.

a) Revolve around y -axis. Use the shell method to find the resulting volume.

b) Revolve around y -axis. Use the disk/washer method to find the resulting volume.

c) Revolve around x -axis
d) Revolve around $x = 4$.
e) Revolve around $y = -1$

} Use shell method to set up integrals representing resulting volumes. Do not compute integrals.

2. Do # 142, 146, 160 in the textbook.