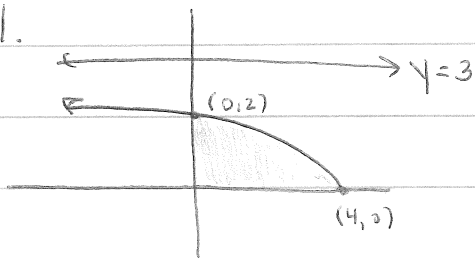


Disks/Washers Worksheet #2

1.

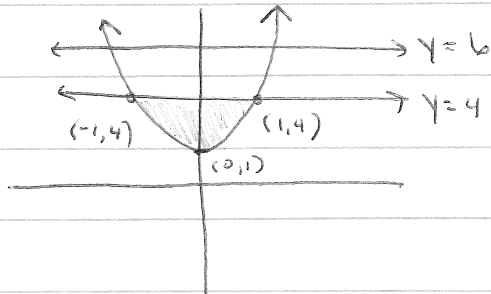


a) $\pi \int_0^4 (\sqrt{4-x})^2 dx$

b) $\pi \int_0^2 (4-y^2)^2 dy$

c) $\pi \int_0^4 (3)^2 - (3 - \sqrt{4-x})^2 dx$

2.

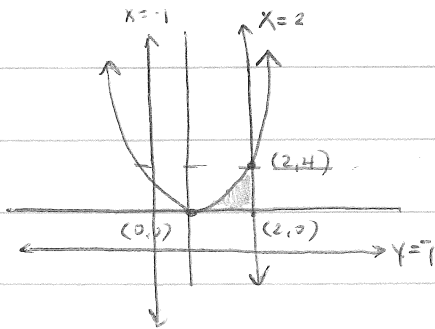


a) $\pi \int_{-1}^1 (4)^2 - (3x^2+1)^2 dx$

b) $\pi \int_{-1}^1 (4 - (3x^2+1))^2 dx$

c) $\pi \int_{-1}^1 (6 - (3x^2+1))^2 - (2)^2 dx$

3.



a) $\pi \int_0^2 (x^2)^2 dx$

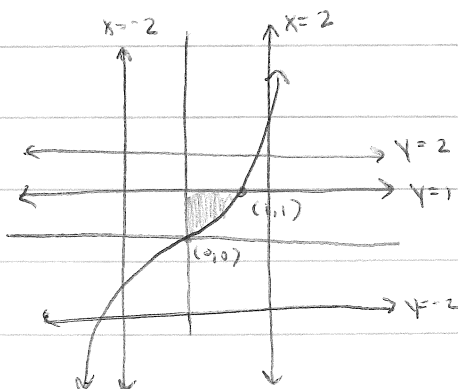
b) $\pi \int_0^4 (2)^2 - (\sqrt{y})^2 dy$

c) $\pi \int_0^4 (2 - \sqrt{y})^2 dy$

d) $\pi \int_0^4 (3)^2 - (x+1)^2 dy$

e) $\pi \int_0^2 (x^2+1)^2 - (1)^2 dx$

4.



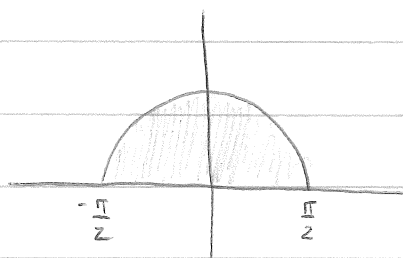
a) $\pi \int_0^1 (2)^2 - (2 - \sqrt[3]{y})^2 dy$

b) $\pi \int_0^1 (\sqrt[3]{y} + 2)^2 - (2)^2 dy$

c) $\pi \int_0^1 (2 - x^3)^2 - (1)^2 dx$

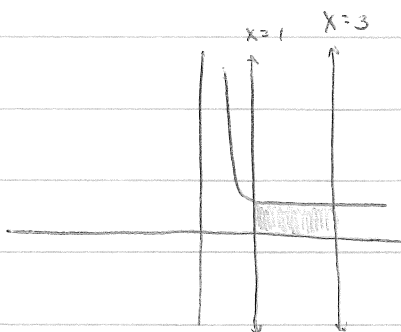
d) $\pi \int_0^1 (3)^2 - (x^3 + 2)^2 dx$

5.



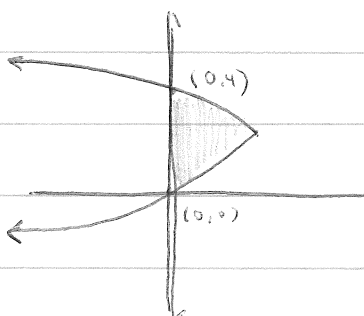
$$\pi \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} (\cos x)^2 dx$$

6.



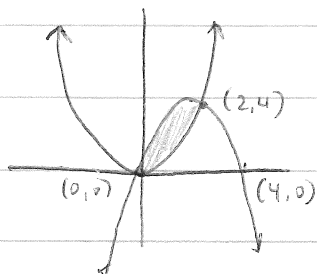
$$\pi \int_1^3 \left(\frac{1}{x}\right)^2 dx$$

7.



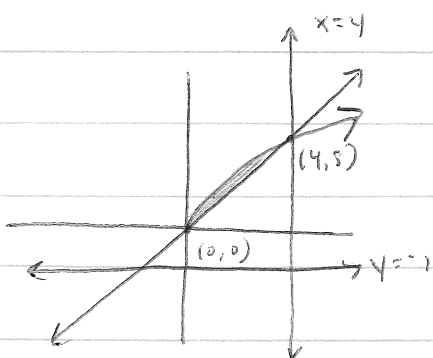
$$\pi \int_0^4 (4y - y^2)^2 dy$$

8.



$$\pi \int_0^2 (4x - x^2)^2 - (x^2)^2 dx$$

9.



$$a) \pi \int_0^4 (4\sqrt{x})^2 - (2x)^2 dx$$

$$b) \pi \int_0^8 \left(\frac{y}{2}\right)^2 - \left(\frac{y^2}{16}\right)^2 dy$$

$$c) \pi \int_0^4 (4\sqrt{x}+1)^2 - (2x+1)^2 dx$$

$$d) \pi \int_0^8 \left(4 - \frac{y^2}{16}\right)^2 - \left(4 - \frac{y}{2}\right)^2 dy$$