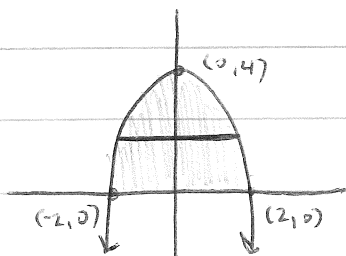


Volume Worksheet

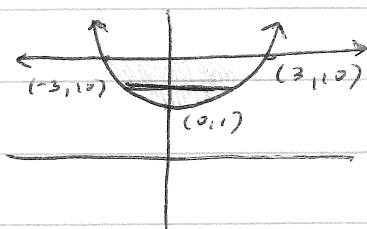
Shells method

1.



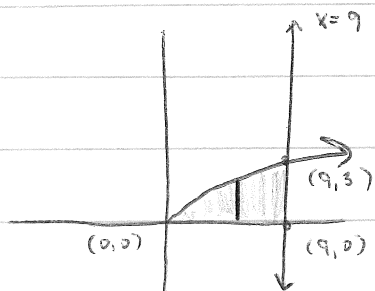
no shells

2



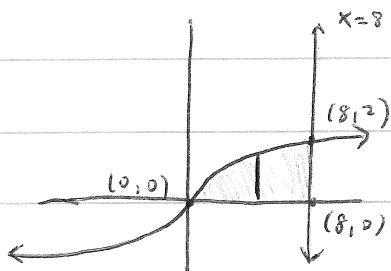
no shells

3.



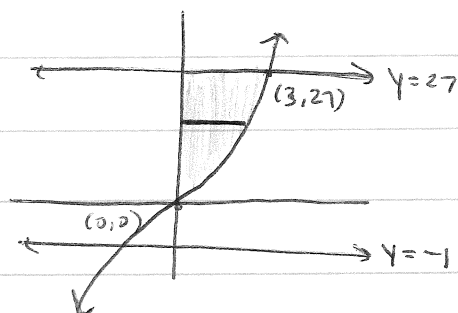
$$2\pi \int_0^9 (9-x)(\sqrt{x}) dx$$

4.



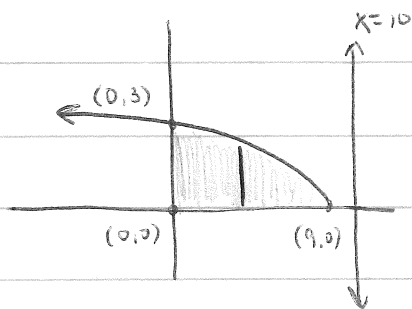
$$2\pi \int_0^8 (x)(\sqrt[3]{x}) dx$$

5.



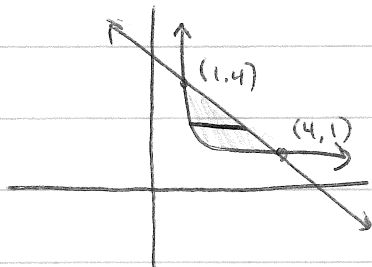
$$2\pi \int_0^{27} (y+1)(\sqrt[3]{y}) dy$$

6.



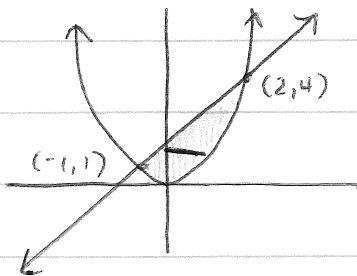
$$2\pi \int_0^9 (10-x)(\sqrt{9-x}) dx$$

7.



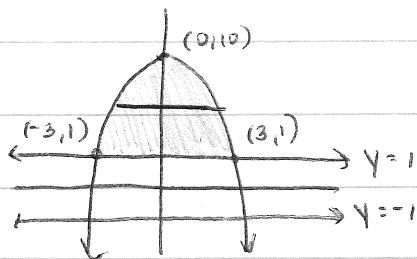
$$2\pi \int_1^4 (y)(5-y-\frac{4}{y}) dy$$

8.



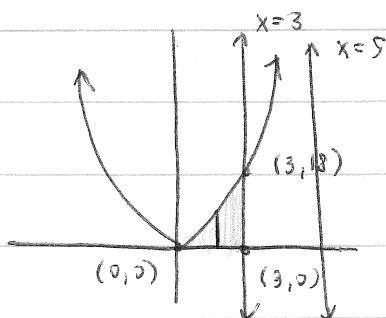
no shells

9.



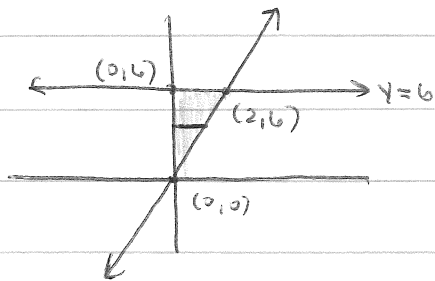
no shells

10.



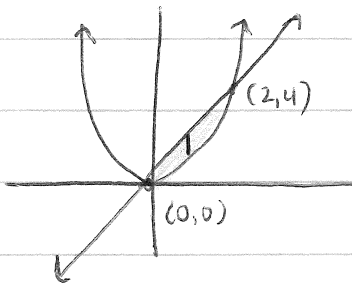
$$2\pi \int_0^3 (5-x)(2x^2) dx$$

11.



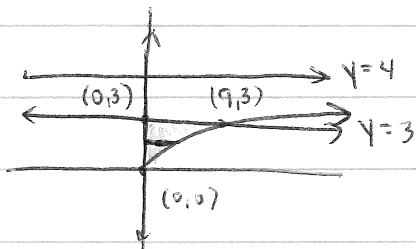
$$2\pi \int_0^6 (6-y) \left(\frac{y}{3}\right) dy$$

12.



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

13.



$$2\pi \int_0^3 (4-y)(y^2) dy$$