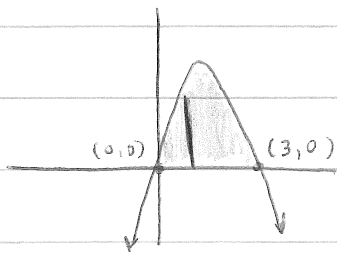


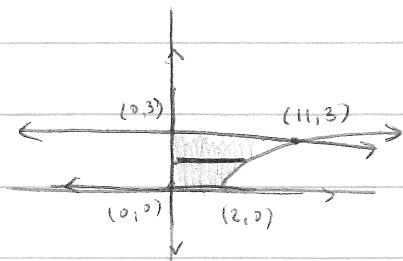
Shells Worksheet

1.



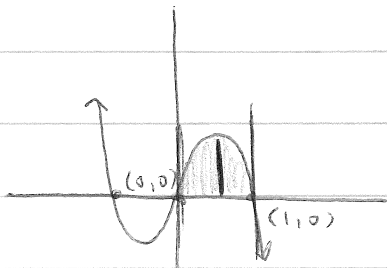
$$2\pi \int_0^3 (x)(3x - x^2) dx$$

2.



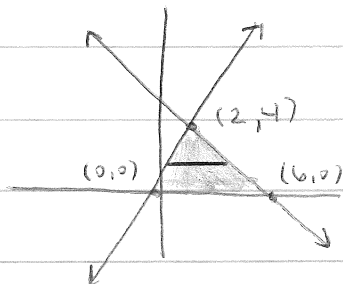
$$2\pi \int_0^3 (y)(y^2 + 2) dy$$

3.



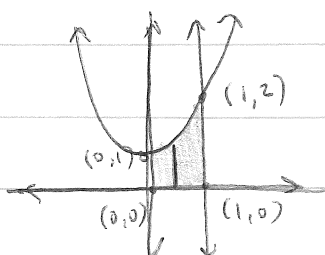
$$2\pi \int_0^1 (x)(x - x^3) dx$$

4.



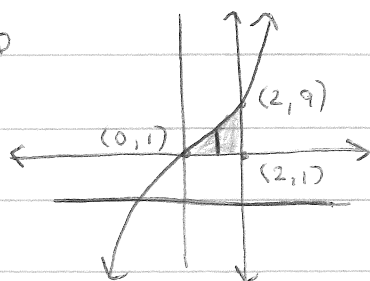
$$2\pi \int_0^4 (y)(6 - y - \frac{y}{2}) dy$$

5.



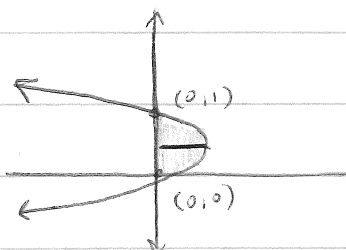
$$2\pi \int_0^1 (x)(x^2 + 1) dx$$

6.



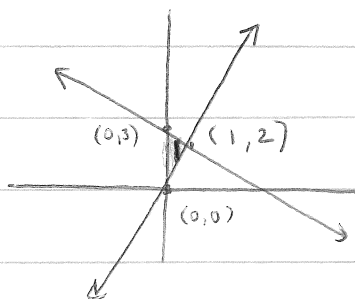
$$2\pi \int_0^2 (x)(x^3 + 1 - 1) dx$$

7.



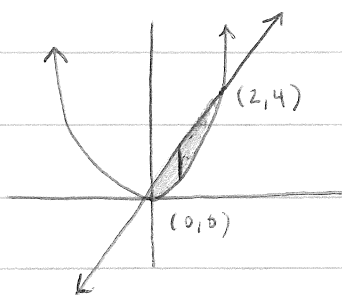
$$2\pi \int_0^1 (y)(y - y^2) dy$$

8.



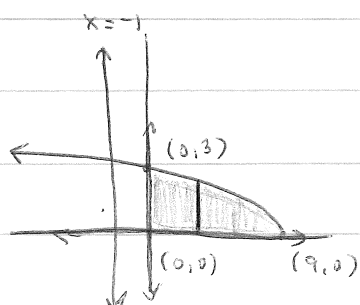
$$2\pi \int_0^1 (x)(3 - x - 2x) dx$$

9.



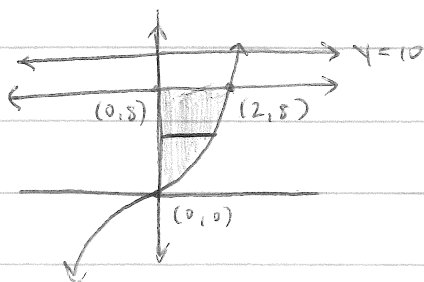
$$2\pi \int_0^2 (x)(2x - x^2) dx$$

10.



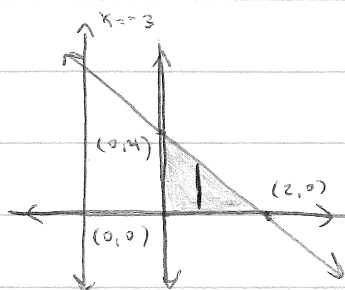
$$2\pi \int_0^9 (x+1)(\sqrt{9-x}) dx$$

11.



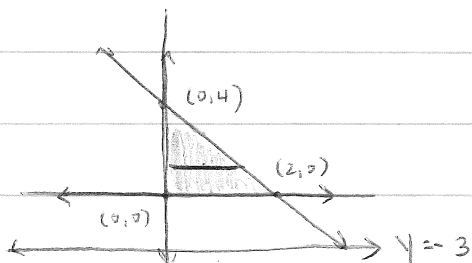
$$2\pi \int_0^{1000} (10 - y)(\sqrt[3]{y}) dy$$

12.



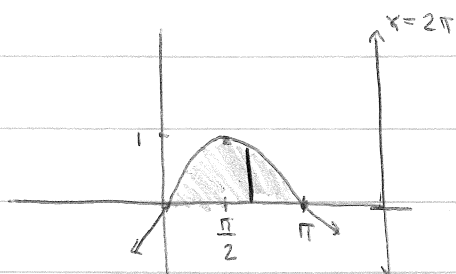
$$2\pi \int_0^2 (x+3)(4-2x) dx$$

13.



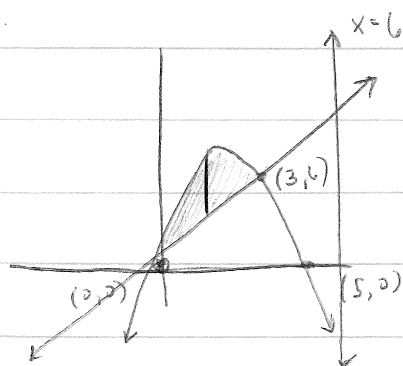
$$2\pi \int_0^4 (y+3)\left(\frac{4-y}{2}\right) dy$$

14.



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

15.



$$2\pi \int_0^3 (6-x)(5x-x^2-2x) dx$$