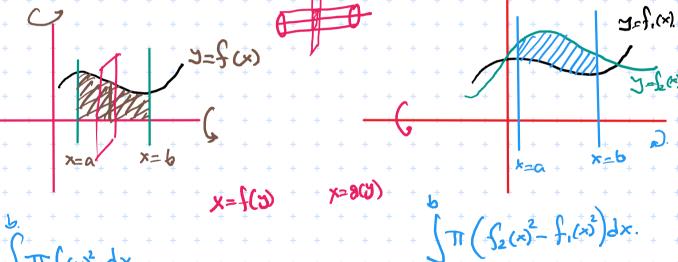
Solids of revolutions.



Rogion 
$$x = x^3$$
  $x > 6$  about  $x = axis$ .

Points of intersection

When  $x > 0$  are  $(0.0)$  and  $(0.1)$  are  $(0.1)$  and  $(0.1)$  and  $(0.1)$  and  $(0.1)$  and  $(0.1)$  are  $(0.1)$  and  $(0.1)$  are  $(0.1)$  and  $(0.1)$  are  $(0.1)$  and  $(0.1)$  are  $(0.1)$  and  $(0.1)$  are  $(0.1)$  and  $(0.1)$  are  $(0.1)$  are  $(0.1)$  and  $(0.1)$  are  $(0.$ 

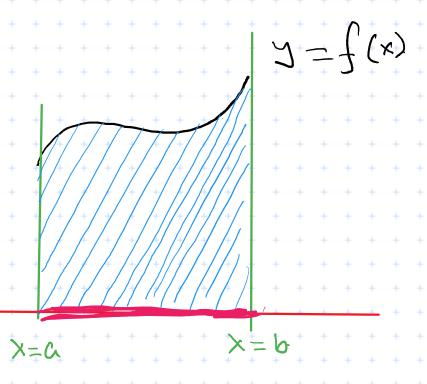
## Surface area

$$f(x) = \frac{x_3}{1 + x_4 + 1}$$

$$\frac{9}{(x)} = \frac{1}{x^{3}} \cdot \frac{1}{x^{4}}$$

$$\frac{1}{x^{4}} \cdot \frac{1}{x^{4}} = \frac{1}{x^{4}} \cdot \frac{1}{x^{4}}$$

$$\frac{1}{1} \int_{-\infty}^{\infty} \frac{1}{1} \left( \frac{1}{1} \int_{-\infty}^{\infty} \frac{1}{1} \int_{-\infty}^{\infty}$$



Region: 
$$y = \sqrt{x}$$
 $y = x^2$ 
 $x = \sqrt{y}$ 

Volume =  $2\pi \int_{0}^{1} x (\sqrt{x} - x^2) dx$ 

$$= 2\pi \int_{0}^{2\pi} x^3 dx$$

Field:  $\frac{3\pi}{10}\pi$