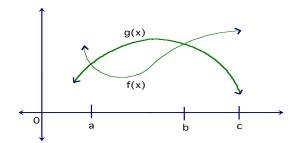
1) Set up an equation that would find volume of enclosed region rotated about y-axis.



Find each volume of enclosed region rotated about the y-axis. (Show work)

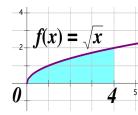
2)
$$f(x)=x^3$$
, $g(x)=0$ from $[0,2]$

3)
$$f(x) = \sqrt{9 - x^2}$$
, $g(x) = 0$ from [0,3]

4) Find each volume of enclosed region rotated about the y-axis. (Set up and use calculator)

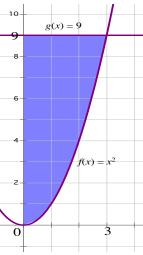
$$y = \frac{1}{\sqrt{x+1}}$$
, $y = 0$, $x = 0$, $x = 10$

5) Find Volume of enclosed region between the graph of $f(x) = \sqrt{x}$ and x-axis from [0,4] rotated about y-axis. (Set up and use calculator)



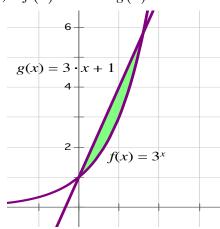
6) Find Volume of enclosed region between the graph of $f(x) = x^2$, y = 9 and y-axis from [0,3]

rotated about y-axis. (Set up and use calculator)



Find the volume of each enclosed region rotated about the y-axis (Set up and use calculator)

7)
$$f(x) = 3^x$$
 $g(x) = 3x + 1$



8)
$$y = \frac{1}{4}x + 1$$
 $g(x) = (x-2)^2$

