Math 102		Name:	
Quiz#2	10	ID No.:	
		Serial No.:	
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- 1. Find the volume of the solid if the region enclosed by the graph of  $y = \frac{1}{x}$ , the x -axis,
  - x = 1, x = 5 is revolved about: (Just set up the integral formula)
    - a. the y –axis.
    - b. the line y = -4.

2. Find the volume of the solid if the region enclosed by the graph of  $y = \sin x$  and  $y = \cos x$ , from  $x = \frac{\pi}{2}$ , to  $x = \frac{3\pi}{2}$  is revolved about the axis  $x = -\pi$ . (Just set up the integral formula)

**3.** Find the length of the curve  $y = \int_{-2}^{x} \sqrt{3t^4 - 1} dt$  when  $-2 \le x \le -1$ .

**4.** Find the area of the surface generated when the curve  $y = \sqrt{2x - x^2}$  is revolved about the x-axis when  $1 \le x \le 2$ .