Math 262 Quiz 1 Due: 09/09/2009		Name:	
	. You may use your book a ou may not consult with out		
1. (5 points) Find the ar	rc length of the curve given	by $y = x^{\frac{2}{3}}$ on $[0, 4]$.	
2. (5 points) Find the a $x = 2$ about the x-axis	rea of the surface generated is.	by rotating the curve $y =$	$= x^3$ between $x = 0$ and

Extra Credit: Derive a formula for the surface area of a sphere of radius r. [Give your work on the back of the quiz or attach additional work]