***Single Variables***

***Volume of Solid of Revolution***

***Solid:*** 

***Disk*:**  

***Washer*:** 



***Shell*:**  



***Length of Curves***

***Length***  

***Parametric Curve***: 

***Area of the Surface***  

***Trapezoid Rule***: 

where  and 

***Simpson’s Rule***:



where  and 

***Polar Coordinates***

 

***Slope of the Curve*** 



***Length of Polar Curve***: 

***Area of Region between Polar Curves***:

