**Differentiation Rules Integration Rules**

(power rule)

**Trigonometric Functions:**

(product rule)

(quotient rule)

where is the inverse of

**Trigonometric Functions:**

**Inverse Trigonometric Functions:**

**Inverse Trigonometric Functions:**

**Exponential & Logarithmic Functions:**

**Exponential & Logarithmic Functions:**

**Properties of Definite Integrals:**

|  |  |  |
| --- | --- | --- |
| **FORMULAS FROM GEOMETRY** | | |
| **Triangle**  ***h***  ***a***  ***b***  ***c***  Law of Cosines | | **Trapezoid** |
| **Equilateral Triangle** | | **http://www.snapwiz.com/content/courseImages/3/sector.pngArea of a Sector**  in radians) |
| **Circular Ring** | | **http://library.thinkquest.org/20991/media/geo_cone2.gifCone** |
| **http://library.thinkquest.org/20991/media/geo_sphere.gifSphere** | | **[https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSn9eYAsx7Z5smF3SzGM0C2qLBumkT_eIfRkmTeVrIsMVxJd8UHBg](http://www.google.com/imgres?biw=1600&bih=719&tbm=isch&tbnid=MOQ0mvu_NHTKtM:&imgrefurl=http://www.mathatube.com/geometry-volume-of-a-cylinder.html&docid=zRTd6cOkVIOG2M&imgurl=http://www.mathatube.com/images/geo_cylinder1.gif&w=200&h=300&ei=KCcvUofqDoiK9ATau4DABg&zoom=1&iact=hc&vpx=751&vpy=288&dur=1375&hovh=240&hovw=160&tx=85&ty=101&page=1&tbnh=151&tbnw=110&start=0&ndsp=43&ved=1t:429,r:17,s:0,i:135)Cylinder** |
| **Conic Sections** | | |
| **Circle** | **Ellipse**  **+** | |
| **Parabola**  http://prodigypreptutoring.com/wp-content/uploads/2012/11/horizontal-parabola_opt.pnghttp://prodigypreptutoring.com/wp-content/uploads/2012/11/vertical-parabola_opt.png | **Hyperbola**  http://www.mathwords.com/h/h_assets/h32.gif | |