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Cylinder Volume =  $\pi r^2 h$  Surface Area =  $2\pi r^2 + 2\pi r h$   
Cube Surface Area =  $6s^2$   
Right Circular Cone Surface Area =  $\pi r^2 + \pi r l$   
Trapezoid Area =  $\frac{1}{2}(a + b)h$   
Constants  $g = 9.8 \text{ m/s}^2 = 32.27 \text{ ft/s}^2$   $G = 6.67 \times 10^{-11} \text{ m}^3/\text{kg}\cdot\text{s}^2$   $\pi = 3.14159$   
Irregular Prism Volume =  $Ah$   $A = \text{area of base}$   
Right Triangle  $c^2 = a^2 + b^2$   $\sin \theta = \frac{a}{c}$   $\cos \theta = \frac{b}{c}$   $\tan \theta = \frac{a}{b}$

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 $\int \frac{1}{x} dx = \ln|x| + C$      $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$      $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$   
 $\int \frac{1}{1+x^2} dx = \arctan x + C$      $\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + C$   
**Integrals of Trigonometric Functions**  
 $\int \sin x dx = -\cos x + C$      $\int \cos x dx = \sin x + C$      $\int \tan x dx = \ln|\sec x| + C$   
 $\int \sec x dx = \ln|\sec x + \tan x| + C$      $\int \frac{1}{\sin x} dx = \ln|\csc x - \cot x| + C$   
 $\int \frac{1}{\cos x} dx = \ln|\sec x + \tan x| + C$      $\int \frac{1}{\cos^2 x} dx = \tan x + C$   
 $\int \frac{1}{\sin^2 x} dx = -\cot x + C$      $\int \frac{1}{\cos^2 x} dx = \tan x + C$

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$$\int \tan^2 x dx = x - \frac{1}{2} \ln |\sec^2 x| + C$$
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