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

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Triangle $c^2 = a^2 + b^2$
 $b \cos \theta$

Engineering Formula Sheet

Chapter - 5.2

BERNOULLI'S FORMULA

4 Hrs. Evaluation of the integrals , and where using Bernoulli's formula. ... 2

Engineering

Mathematics-II 1.1.2

General Equation of the circle: The General Equation of the circle is $x^2 + y^2 + 2gx + 2fy +$

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$$c = 0 \text{ ----- (2)}$$

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A.P. $S_n = a + (a + d) + (a + 2d) + \dots$

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$$+2d) + [a + (n-1)d] =$$

$$n^2 [2a + (n-1)d] \text{ G.P.}$$

$$S_n = a + ar + ar^2 +$$

$$+ ar^{n-1} = a \frac{1-r^n}{1-r}, S_1$$

$$= a \frac{1-r}{1-r} \text{ for } |r| < 1$$

(These results also hold for complex series.)

Convergence of series:

the ratio test $S_n = u_1$

$$+ u_2 + u_3 + \dots + u_n$$

converges as $n \rightarrow \infty$ if $\lim_{n \rightarrow \infty}$

$$\frac{u_{n+1}}{u_n} < 1$$

Convergence of series:

the comparison test

Mathematical

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Chapter - 3.3 SUM AND
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simultaneous

equations using

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3 unknowns) - Simple

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MATHEMATICS-I

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Mathematics 1 Chapter

1 Engineering

Mathematics 1 Chapter

2 Engineering

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3 Engineering

Mathematics 1 Chapter

4 Engineering ...

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Mathematics 1 -

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Now you will learn other formulae that can be used to calculate volumes of different shapes, based on a few measurements. Many of these formulae were first worked out thousands of years ago. They are still in use today because they are important in

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everyday life. The process of calculating areas and volume using formulae is called Mensuration.

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equation - Properties
of Eigenvalues and
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Diagonalization of
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canonical form by
orthogonal
transformation -
Nature of quadratic
forms.

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Mathematics 2
Regulation 2017

$\int x^2 dx = \frac{x^3}{3} + C$
 $\int x dx = \frac{x^2}{2} + C$
 $\int \frac{1}{x} dx = \ln|x| + C$

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$$\int \frac{1}{1+x^2} dx = \arctan x + C$$

$$\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + C$$

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

Integrals of

Trigonometric

Functions $\int \sin x dx = -\cos x + C$

$$\int \cos x dx = \sin x + C$$

$$\int \tan x dx = -\ln |\sec x| + C$$

$$\int \sec x dx = \ln |\tan x + \sec x| + C$$

$$\int \frac{1}{\cos^2 x} dx = \tan x + C$$

$$\int \frac{1}{\sin^2 x} dx = -\cot x + C$$

$$\int \frac{1}{\cos^2 x} dx = \tan x + C$$

$$\int \frac{1}{\sin^2 x} dx = -\cot x + C$$

$$\int \tan^2 x dx = \tan x - x + C$$

$$\int \sec^2 x dx = \tan x + C$$

$$\int \csc^2 x dx = -\cot x + C$$

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Integration

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