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 $s$ : length of one side Volume of a box:  $l \times w \times h$   $l$ : length  $w$ : width  $h$ : height Volume of a sphere:  $(4/3) \times \pi \times r^3$   $\pi$ : 3.14  $r$ : radius of sphere Volume of a triangular prism: area of triangle  $\times$  Height =  $(1/2 \text{ base} \times \text{height}) \times \text{Height}$

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## Applied Mathematics 1 Formula For Diploma Engineering

Equation (1.1) is the integral form of conservation of Q. It states that, for any region  $V$ , the rate of change of the total amount of Q in is equal to the rate at which Q flows into through the boundary  $\partial V$  plus the rate at which Q is generated by sources inside  $V$ . 1.2. Differential form Bringing the time derivative in (1.1) inside the integral over the ...

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## 8.1: Principal, Rate, Time - Mathematics LibreTexts

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