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b 1 and b 2: parallel sides or the bases h: length of height volume: Volume of a cube: s × s × s s: length of one side Volume of a box: l × w × h l: length w: width h: height Volume of a sphere: (4/3) × pi × r 3 3.14 r: radius of sphere Volume of a triangular prism: area of triangle × Height = (1/2 base × height) × Height

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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 V is equal to the rate at which Q flows into through the boundary ∂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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Step 3: Apply Formula 8.1 and solve for the unknown variable. Use algebra to manipulate the formula if necessary. Assume you have \$500 earning 3% simple interest for a period of nine months. How much interest do you earn? Step 1: Note that your principal is \$500, or P = \$500. The interest rate is assumed to be annual, so r = 3% per year.

[8.1: Principal, Rate, Time - Mathematics LibreTexts](#)

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