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Property (7): In a given determinant if two rows or column are identical for $a = b$, then $(a - b)$ is a factor of the determinant.
i.e $\begin{vmatrix} 2 & 2 & 2 \\ 1 & 1 & 1 \\ a & b & c \end{vmatrix}$ for $a = b$ $\begin{vmatrix} 2 & 2 & 2 \\ 1 & 1 & 1 \\ b & c & c \end{vmatrix}$ ENGINEERING MATHEMATICS-I Applied Mathematics-1, M-1

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Equation (1.1) is the integral form of conservation of Q. It states that, for any region, the rate of change of the total amount of Q in is equal to the rate at which Q flows into through the boundary @ plus the rate at which Q is generated by sources inside.

1.2. Differential form Bringing the time derivative in (1.1) inside the integral over the xed region

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