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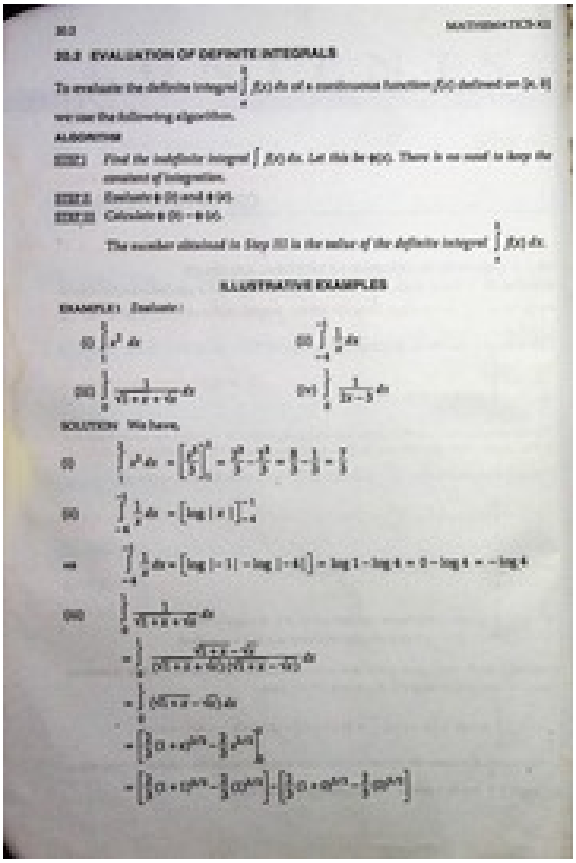

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Problems [**Problem 4.11.**]{} [*(i)*]{} Prove that the only algebra of differential functions of a second degree satisfying the Leibniz rule is given by the [*free*]{} Lie algebra generated by the symbol x^2. [*(ii)*]{} Deduce that the Lie group given by the left-invariant vector fields $x{\frac{\partial }{\partial x}}$ and $x^2{\frac{\partial }{\partial x}}$ is [*not*]{} a [*differentiable*]{} Lie group in the ordinary sense. 82157476af