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Solution of the Diffusion Equation with Closed Pipe Ends

Determine the solution to the diffusion equation $u_t = Du_{xx}$ for the concentration $u = u(x, t)$ with closed pipe ends corresponding to the boundary conditions $u_x(0) = u_x(L) = 0$, and with general initial conditions given by $u(x, 0) = f(x)$. Use the results of the previously solved problems.

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