

## coursera

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## **Boundary Conditions with Closed Pipe Ends**

If the ends of the pipe were sealed preventing a further diffusion of dye, then the mass flux through the pipe's ends would be zero, and the appropriate boundary conditions would be  $u_x(0,t)=u_x(L,t)=0$  for all times. Determine the appropriate boundary conditions on X=X(x).



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