# *Evans Pde Solution*

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t+ bDu+ cu= 0 in Rn (0;1) u= gon Rnf t= 0g ) Solution:We use the method of characteristics; consider a solution to the PDE along the direction of the vector (b;1): z(s) = u(x+bs;t+s). We have z_(s) = u. t(x+bs;t+s)+bDu(x+bs;t+s) = cu(x+bs;t+s) = cz(s), thus the PDE reduces to an ODE.

## Solutions to exercises from Chapter 2 of Lawrence C. Evans ...

Authors: Joe Benson, Denis Bashkirov, Minsu Kim, Helen Li, Alex Csar Evans PDE Solutions, Chapter 2 Joe: 1, 2,11; Denis: 4, 6, 14, 18; Minsu: 2,3, 15; Helen: 5,8,13,17. Alex:10, 16 Problem 1. Write down an explicit formula for a function u solving the initial-value problem (u t + bDu+ cu = 0 on Rn (0;1) u = g on Rn ft = 0g Here c 2R and b 2Rn are constants.

## Authors: Joe Benson, Denis Bashkirov, Minsu Kim, Helen Li ...

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