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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 R^n $(0;1)$ $u = g$ on R^n $t = 0$ g Here $c \in R$ and $b \in R^n$ are constants. Sol: Fix x and t , and consider $z(s) := u(x + bs;t + s)$ Then $z'(s) = bDu + u_t = cu(x + bs;t + s) = cz(s) ...$

[Authors: Joe Benson, Denis Bashkirev, Minsu Kim, Helen Li ...](#)

Evans PDE Solutions for Ch2 and Ch3 Osman Akar July 2016 This document is written for the book "Partial Dierential Equations" by Lawrence C. Evans (Second Edition). The document prepared under UCLA 2016 Pure REU Program.

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The partial differential equations that arise in transport phenomena are usually the first order conservation equations or second order PDEs that are classified as elliptic, parabolic, and hyperbolic. A system of first order conservation equations is sometimes combined as a second order hyperbolic PDE. The student is encouraged to read R. Courant, Methods of Mathematical Physics, Volume II ...

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