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an equation for some quantity
 u (dependent variable)
which depends on the

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independent variables $x_1, x_2, x_3, \dots, x_n$; $n \geq 2$, and involves derivatives of u with respect to at least some of the independent variables.

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equation). (b) $u(x,t) = A(x) + B(t)$: $u_t =$

$B'(t)$ so $u_{tx} = 0$. (c) $u(x,t) = A(x)/B(t)$:

$\ln u = \ln A(x) - \ln B(t)$ so $(\ln u)_{tx} = 0$ or

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$u_{tx} - u_{tx} = 0$. (d) $u(x,t) = A(xt)$: $u_t = xA'(xt)$, $u_x = tA'(xt)$, so $u_{tt} - x u_{xx} = 0$.
(e) $u(x,t) = A(x^2t)$: $u_t = x^2 A'(x^2t)$, $u_x = 2xt A'(x^2t)$ so $2t u_t - x u_{xx} = 0$. (f) $u(x,t) = A(x^2/t)$: $u_t = -x \cdot 2A'(x^2/t) \cdot u_x$.

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