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جدول ۱: بعضی از معادلات غیرخطی که جواب‌های دقیقی به فرم(؟؟)و(؟؟)دارند

مراجع	جواب	معادله
[؟]	$T=\varphi(x)+\psi(t)$ $T=(a/b)\ln u,$ $u=\varphi(x)+\psi(t)$	$\frac{\partial T}{\partial t}=a\frac{\partial^2 T}{\partial x^2}+b(\frac{\partial T}{\partial x})^2$
[؟، ؟]	$T=\varphi(x)\psi(t)$	$\frac{\partial T}{\partial t}=a\frac{\partial}{\partial x}(T^m\frac{\partial T}{\partial x})$
[؟، ؟]	$T=\varphi(x)+\psi(t)$	$\frac{\partial T}{\partial t}=a\frac{\partial}{\partial x}(e^{\lambda t}\frac{\partial T}{\partial x})$
[؟، ؟]	$T=\varphi(x)\psi(t)$	$\frac{\partial T}{\partial t}=a\frac{\partial^2 T}{\partial x^2}+aT\ln T$
[؟]	$T=\varphi(x)\psi(t)$	$\frac{\partial T}{\partial t}=ax^{-n}\frac{\partial}{\partial x}(x^n\frac{\partial T}{\partial x})+bT\ln T$
[؟]	$T=-2\ln u,\ u=$ $\varphi(x)+\psi(y)$	$\frac{\partial^2 T}{\partial x^2}+\frac{\partial^2 T}{\partial y^2}=ae^T$
[؟]	$T=2\ln\frac{1+u}{1-u},\ u=$ $\varphi(x)\psi(y)$	$\frac{\partial^2 T}{\partial x^2}+\frac{\partial^2 T}{\partial y^2}=a\sinh T$
[؟]	$T=e^u,\ u=\varphi(x)+\psi(y)$	$\frac{\partial^2 T}{\partial x^2}+\frac{\partial^2 T}{\partial y^2}=aT\ln T$
[؟]	$T=4a\tan u,\ u=$ $\varphi(x)\psi(y)$	$\frac{\partial^2 T}{\partial x^2}+\frac{\partial^2 T}{\partial y^2}=a\sin T$
[؟]	$T=F(u),\ u=$ $\varphi(x)+\psi(y)$	$\frac{\partial}{\partial x}(ax^n\frac{\partial T}{\partial x})+\frac{\partial}{\partial y}(by^m\frac{\partial T}{\partial y})=cT^k$
[؟]	$T=F(u),\ u=$ $\varphi(x)+\psi(y)$	$\frac{\partial}{\partial x}(ae^{\lambda x}\frac{\partial T}{\partial x})+\frac{\partial}{\partial y}(be^{\beta y}\frac{\partial T}{\partial y})=ce^{\gamma T}$
[؟]	$T=F(u),\ u=$ $\varphi(x)+\psi(y)$	$\frac{\partial}{\partial x}(ax^n\frac{\partial T}{\partial x})+\frac{\partial}{\partial y}(be^{\beta y}\frac{\partial T}{\partial y})=ce^{\gamma T}$
[؟]	$T=\varphi(x)\psi(y)$	$\frac{\partial}{\partial x}(aTn\frac{\partial T}{\partial x})+\frac{\partial}{\partial y}(bT^m\frac{\partial T}{\partial y})=0$
[؟]	$T=\varphi(x)+\psi(y)$	$\frac{\partial}{\partial x}(ae^{\lambda T}\frac{\partial T}{\partial x})+\frac{\partial}{\partial y}(be^{\beta T}\frac{\partial T}{\partial y})=0$
[؟]	$T=-2\ln u,\ u=$ $\varphi(x)+\psi(t)$	$\frac{\partial^2 T}{\partial t^2}=\frac{\partial^2 T}{\partial x^2}+ae^T$
[؟]	$T=2\ln\frac{1+u}{1-u},\ u=$ $\varphi(x)\psi(t)$	$\frac{\partial^2 T}{\partial t^2}=\frac{\partial^2 T}{\partial x^2}+a\sinh T$
[؟]	$T=e^u,\ u=\varphi(x)+\psi(t)$	$\frac{\partial^2 T}{\partial t^2}=\frac{\partial^2 T}{\partial x^2}+aT\ln T$
[؟]	$T=4a\tan u,\ u=$ $\varphi(x)\psi(t)$	$\frac{\partial^2 T}{\partial t^2}=\frac{\partial^2 T}{\partial x^2}+a\sin T$