Identified PDEs

	None	Moving Avg	Cubic Spline	Savitzky Golay	Kernel Filter
1 term	NA	$-0.75804uu_x$	$-0.40172u_x$	$-0.80174uu_x$	NA
2 terms	$-0.00392uu_{xx}+$ $0.00851u^2u_{xx}$	NA	$-0.29940u_x$ $+$ $-0.50414u^2u_x$	$-0.21504u_x$ $+$ $-0.37358uu_x$	$-109.92191uu_x+$ $-91.44342u^2u_{xxx}$
3 terms	$-0.32157u_x$ $+$ $-0.00437uu_{xx}+$ $0.00895u^2u_{xx}$	$-0.75686uu_x$ $+$ $-0.00226uu_{xx}+$ $0.00589u^2u_{xx}$	NA	$-2.13639u^2$ $+$ $-0.21534u_x$ $+$ $-0.37292uu_x$	$-98.48596uu_x+$ $-135.56134u^2u_{xxx}+$ $-56.87170u^2u_{xxxx}$
4 terms	NA	$-0.20726u_x$ $+$ $-0.34483uu_x$ $+$ $-0.00251uu_{xx}+$ $0.00631u^2u_{xx}$	$-0.27450u_x$ $+$ $-0.60785u^2u_x+$ $0.00027uu_{xxx}$ $+$ $-0.00045u^2u_{xxx}$	$1.30453u$ $+$ $-4.46908u^2$ $+$ $-0.21450u_x$ $+$ $-0.37443uu_x$	NA
5 terms	NA	NA	$-2.08973u^2$ $+$ $-0.27622u_x$ $+$ $-0.59282u^2u_x+$ $0.00026uu_{xxx}$ $+$ $-0.00042u^2u_{xxx}$	NA	$-128.37631uu_x+$ $69.36572uu_{xx}$ $+$ $-237.65779u^2u_{xx}+$ $-280.65436u^2u_{xxx}+$ $-113.67838u^2u_{xxxx}$
6 terms	NA	NA	$1.32700u$ $+$ $-4.41394u^2$ $+$ $-0.27196u_x$ $+$ $-0.59955u^2u_x+$ $0.00030uu_{xxx}$ $+$ $-0.00047u^2u_{xxx}$	NA	$-125.03902uu_x+$ $57.05769uu_{xx}$ $+$ $-219.28817u^2u_{xx}+$ $-271.60494u^2u_{xxx}+$ $-13.06438uu_{xxxx}+$ $-94.15883u^2u_{xxxx}$

	None	Moving Avg	Cubic Spline	Savitzky Golay	Kernel Filter
1 term	NA	$\alpha u u_x$	αu_x	$\alpha u u_x$	NA
2 terms	$\alpha u u_{xx} + \beta u^2 u_{xx}$	NA	$\alpha u_x + \beta u^2 u_x$	$\alpha u_x + \beta u u_x$	$\alpha u u_x + \beta u^2 u_{xxx}$
3 terms	$\alpha u_x + \beta u u_{xx} + \gamma u^2 u_{xx}$	$\alpha u u_x + \beta u u_{xx} + \gamma u^2 u_{xx}$	NA	$\alpha u^2 + \beta u_x + \gamma u u_x$	$\alpha u u_x + \beta u^2 u_{xxx} + \gamma u^2 u_{xxxx}$
4 terms	NA	$\alpha u_x + \beta u u_x + \gamma u u_{xx} + \lambda u^2 u_{xx}$	$\alpha u_x + \beta u^2 u_x + \gamma u u_{xxx} + \lambda u^2 u_{xxx}$	$\alpha u + \beta u^2 + \gamma u_x + \lambda u u_x$	NA
5 terms	NA	NA	$\alpha u^2 + \beta u_x + \gamma u^2 u_x + \lambda u u_{xxx} + \mu u^2 u_{xxx}$	NA	$\alpha u u_x + \beta u u_{xx} + \gamma u^2 u_{xx} + \lambda u^2 u_{xxx} + \mu u^2 u_{xxxx}$
6 terms	NA	NA	$\alpha u + \beta u^2 + \gamma u_x + \lambda u^2 u_x + \mu u u_{xxx} + \rho u^2 u_{xxx}$	NA	$\alpha u u_x + \beta u u_{xx} + \gamma u^2 u_{xx} + \lambda u^2 u_{xxx} + \mu u u_{xxxx} + \rho u^2 u_{xxxx}$