1 Magnus expansion for A, B constant and deterministic

1.1 Values of Moments

Configuration $\Delta = 0.0001$, $M = 1000$

Method	$E[(X_t^{11})^k]$	$E[(X_t^{12})^k]$	$E[(X_t^{21})^k]$	$E[(X_t^{22})^k]$	run 1	run 2	run 3	mean
			$k = 1$					
`euler`	0.884995	0.136974	-0.913738	1.99784	7.04145	6.83223	6.94605	6.93991
`m1`	1.23538	-0.510346	-1.38672	2.88552	0.273418	0.11308	0.0808669	0.155788
`m2`	0	0	0	0	0	0	0	0
`m3`	0	0	0	0	0	0	0	0
			$k = 2$					
`euler`	1.20982	1.09315	1.78757	7.06842	7.04276	6.83263	6.94564	6.94034
`m1`	2.49141	3.21348	3.99804	15.4156	0.273259	0.113674	0.080671	0.155868
`m2`	0	0	0	0	0	0	0	0
`m3`	0	0	0	0	0	0	0	0
			$k = 3$					
`euler`	2.62519	-3.20706	-5.74199	40.8729	7.04137	6.83229	6.94576	6.93981
`m1`	8.21939	-20.9025	-18.9891	136.058	0.273378	0.1131	0.0807921	0.155757
`m2`	0	0	0	0	0	0	0	0
`m3`	0	0	0	0	0	0	0	0