In this tests we consider:

- $\psi(x) = -\exp(x) - (\mathrm{e}-3)x^3 - (5-2\mathrm{e})x^2 + x + 1$
- $\psi_{\mathrm{l}} = 0$
- $\psi_{\mathrm{ll}} = 0$
- $\psi_{\mathrm{r}} = 0$
- $\psi_{\mathrm{rr}} = 0$
- $g(x) = \exp(x)$
- the different PRO schemes are:
  - PRO1 — weak ($R = A^{\dagger}B$) and degree d
  - PRO2 — strong (constrained least squares) and degree d
  - PRO3 — weak ($R = A^{\dagger}B$) and degree $d+1$
  - PRO4 — strong (constrained least squares) and degree $d+1$
  - PRO5 — weak ($R = A^{\dagger}B$) and degree $d+2$
  - PRO6 — strong (constrained least squares) and degree $d+2$

Table 1: Numerical results of the example with $\omega = 1|1$, and $\omega = 1$.

	I	$\mathrm{E}_{\infty,0}$	$\mathrm{O}_{\infty,0}$
$\mathbb{P}_3(4)$	20	2.60E−04	—
	40	3.35E−05	2.95
	80	4.14E−06	3.02
	160	4.90E−07	3.08
	320	5.37E−08	3.19
	640	5.07E−09	3.40