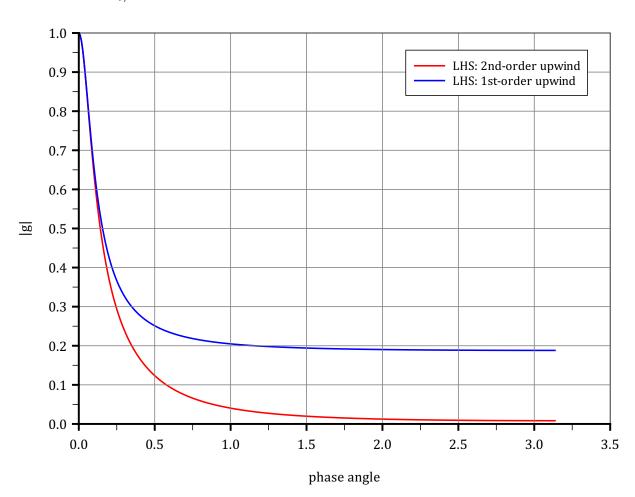
Implicit time stepping, convection-diffusion equation

Scheme 1:

Explicit and implicit operators discretized using 2nd-order upwind scheme, $\sigma=10$, $\Lambda_{\nu}/\Lambda=2.0$.

Scheme 2:

Explicit operator discretized using 2nd-order upwind scheme, implicit operator using 1st-order upwind scheme, $\sigma=10$, $\Lambda_{\nu}/\Lambda=2.0$.



Magnitude of the amplification factor |g| over the phase angle φ .