Type 1: $K_0(j\omega)^n$
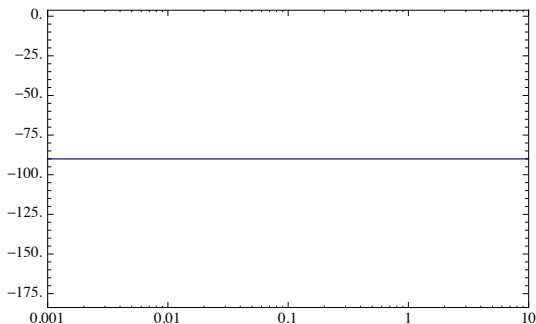
Phase: $\angle K_0(j\omega)^n = \angle(j\omega)^n = n\angle j\omega = n \cdot 90°$
— this is a constant, independent of ω.

In our example, we had $K_0(j\omega)^{-1}$:

— here, the phase is $-90°$ for all ω.