Тур	Differentialgleichung	Frequenzgang	Schrittantwort	Nyquistdiagramm	Bodediagramm
		$G(j\omega)$	u(t)=arepsilon(t)	(Ortskurve)	$(\mathrm{dB} \ \widehat{=}\ 20 \cdot \mathrm{log}_{10})$
I	$y(t) = K \! \int_0^t u(au) d au$ $\dot{y} = K u(t)$	$rac{K}{j\omega}$	y t K	$ \begin{array}{c c} Im \\ \omega = \infty \\ \hline -j \\ \omega = K \\ \downarrow \\ \omega \\ \omega \to 0 \end{array} $ Re	$ \begin{array}{c c} G dB \\ 0 \\ -20 \frac{dB}{Dek} \\ 0^{\circ} \\ -90^{\circ} \end{array} $
PI	$y(t) = K[u(t) + rac{1}{T} \int_0^t u(au) d au]$	$K\left(1+\frac{1}{j\omega T}\right)$ bzw. $K\frac{1+j\omega T}{j\omega T}$	y K T	$ \begin{array}{c} Im \\ & \omega = \infty \\ & K \\ & \omega \rightarrow 0 \end{array} $ $ \begin{array}{c} Re \\ & \omega \rightarrow 0 \end{array} $	$ \begin{array}{c c} G _{dB} & -20 \frac{dB}{Dek} \\ 0 & & \downarrow & K \\ 0 & & \downarrow & \downarrow & K \\ 0 & & \downarrow & \downarrow & K \\ -90^{\circ} & & & \downarrow & \omega \\ \end{array} $
D	$y(t){=}K\dot{u}(t)$	$j\omega K$	$\begin{array}{c} y \\ \downarrow \\ \delta \end{array}$ ideal: $\begin{array}{c} \delta \\ \\ \delta \\ \\ \downarrow \\ \end{array}$	$Im \oint_{\omega \to \infty} \omega$ $\omega = 0$ Re	$ \begin{array}{c c} G _{dB} \\ 0 \\ +20 \frac{dB}{Dek} \\ 90^{\circ} \\ 0^{\circ} \end{array} $
DT_1	$T\dot{y}(t){+}y(t){=}K\dot{u}(t)$	$rac{j\omega K}{1+j\omega T}$	y K T t	$ \begin{array}{c} \omega = \frac{1}{T} \\ \omega = 0 \\ \end{array} $ $ \begin{array}{c} \omega = \infty \\ Re \end{array} $	$ \begin{array}{c c} G _{dB} \\ 0 \\ 20 \frac{dB}{Dek} \\ 0 \\ 0 \\ \end{array} $