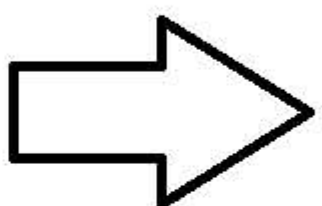
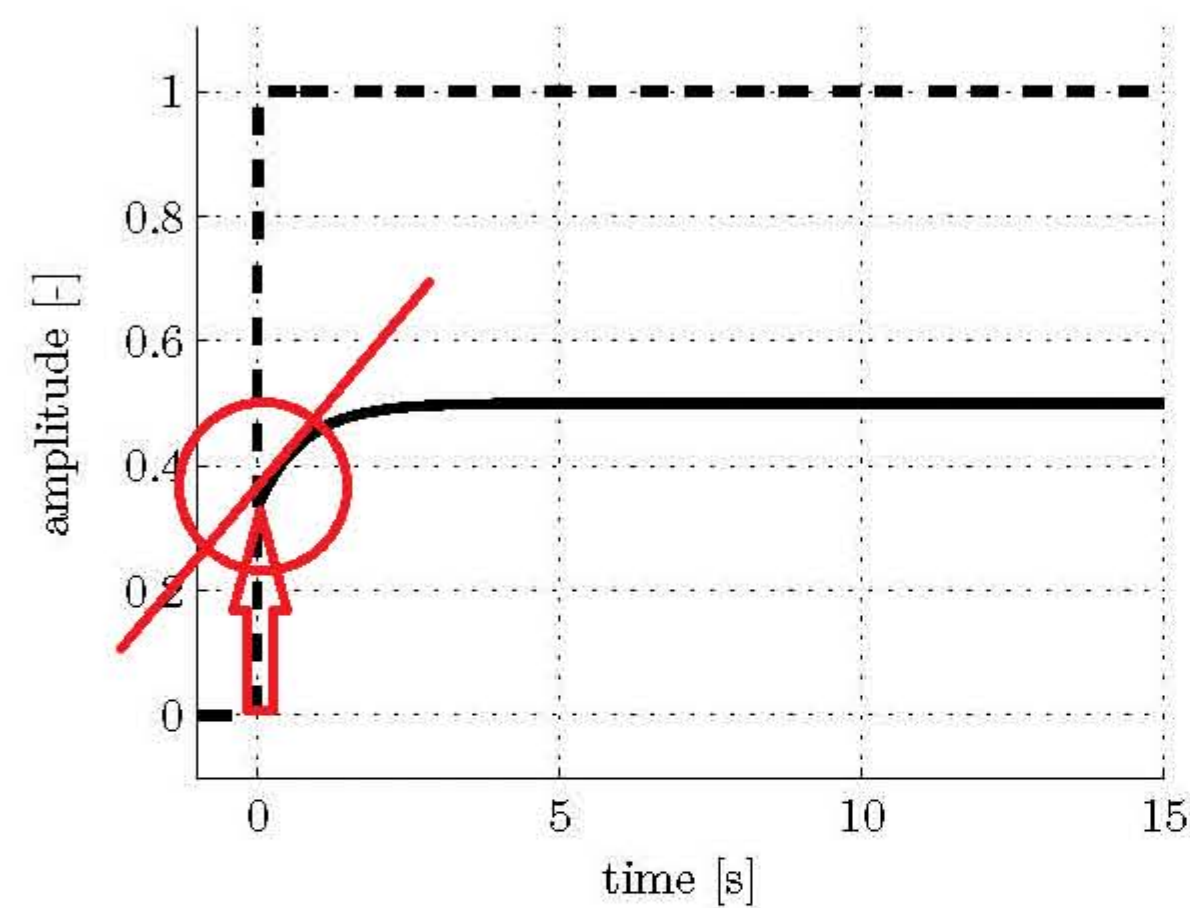
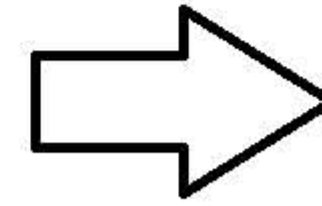
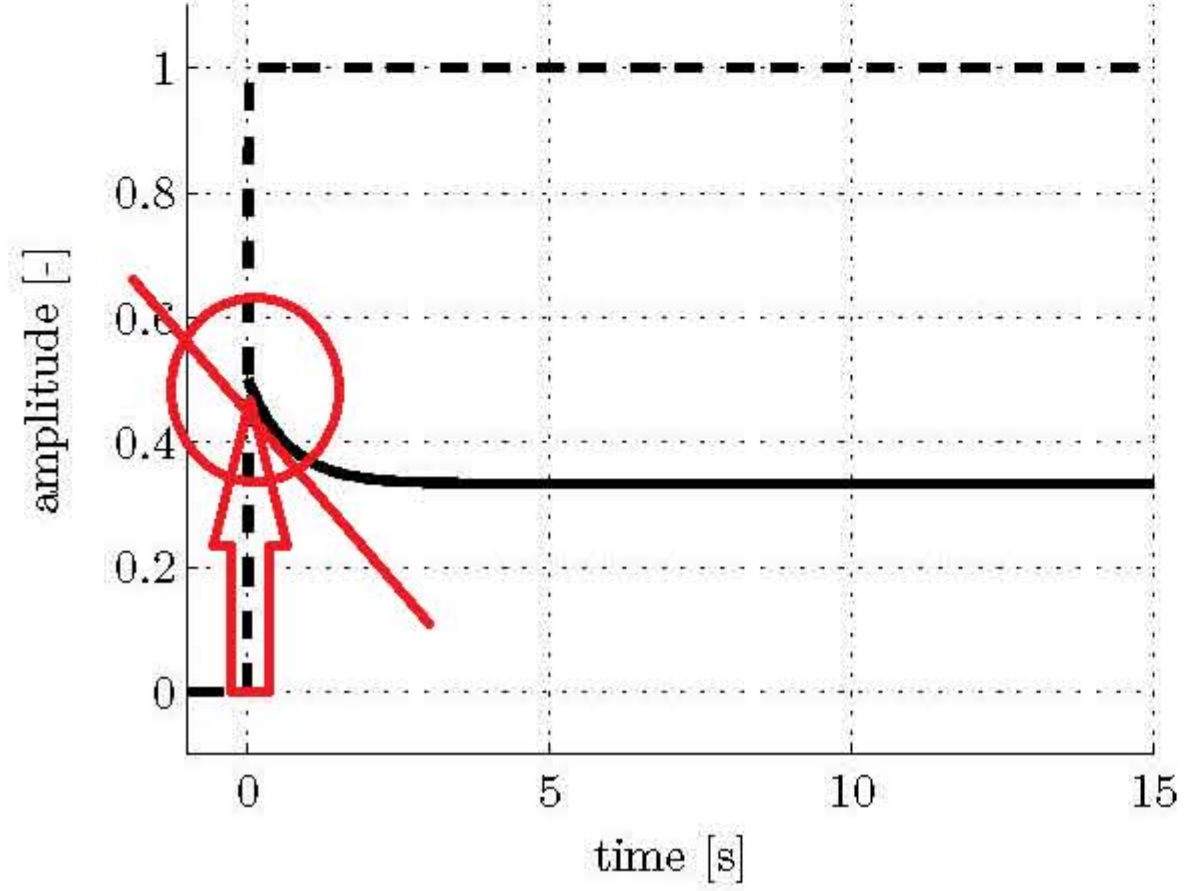


Sprungantwort <-> Kreisverstaerkung L(s)

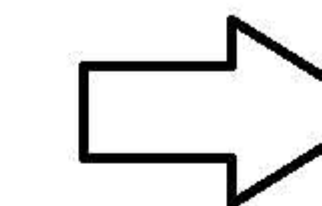
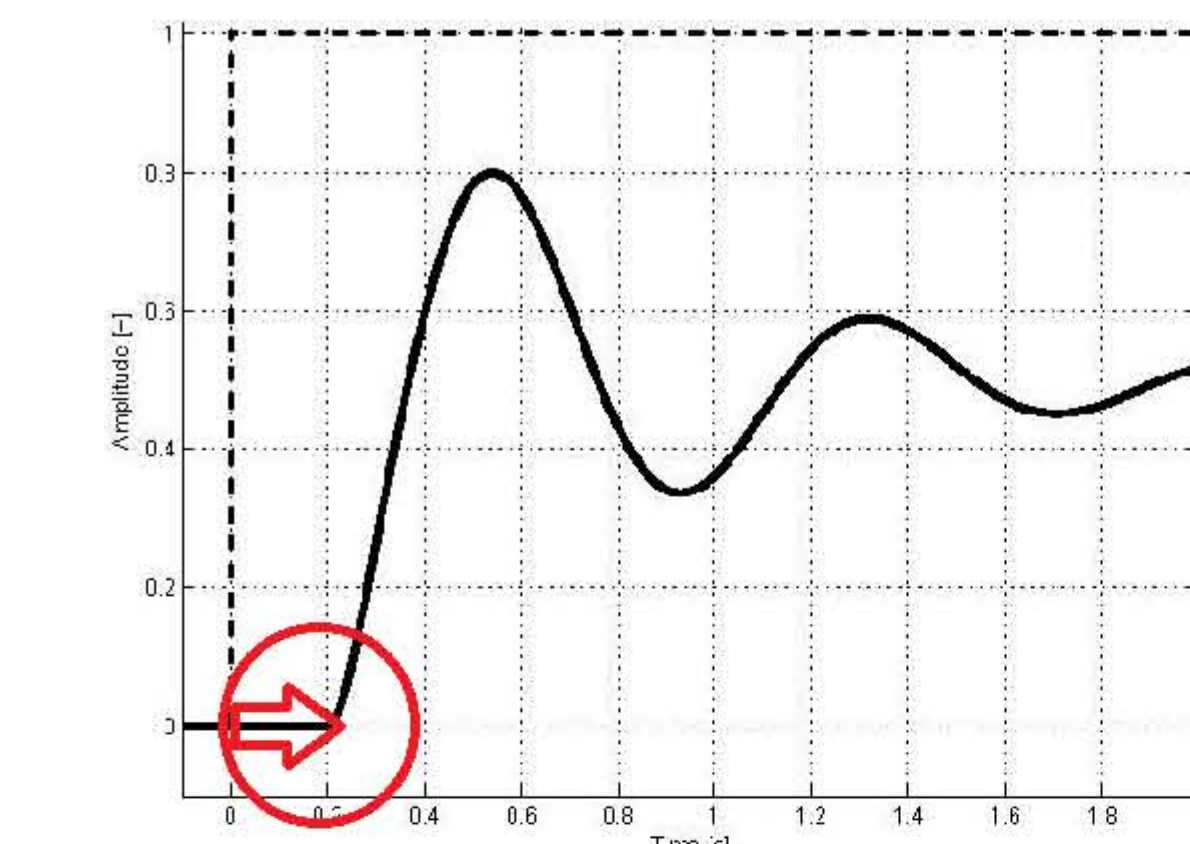
Anfangswert:



relativer Grad  $r=0$  ,  $\frac{(1/t_n \cdot s+1)}{(1/t_p \cdot s+1)}$  , mit  $t_n > t_p$

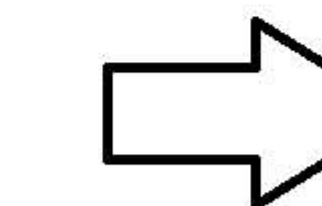
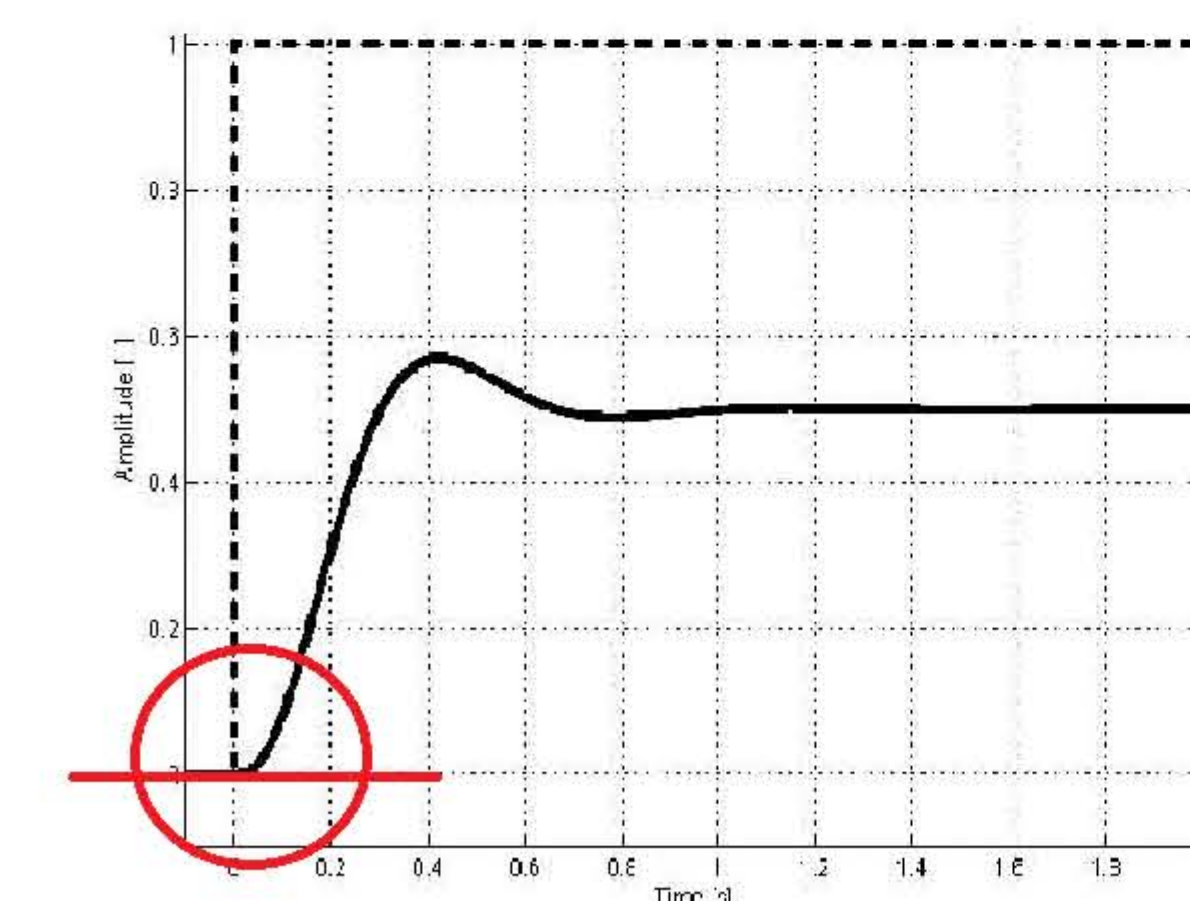


relativer Grad  $r=0$  ,  $\frac{(1/t_n \cdot s+1)}{(1/t_p \cdot s+1)}$  , mit  $t_n < t_p$

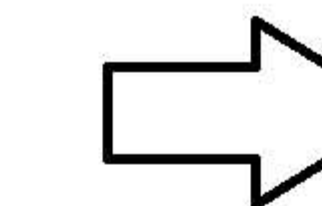
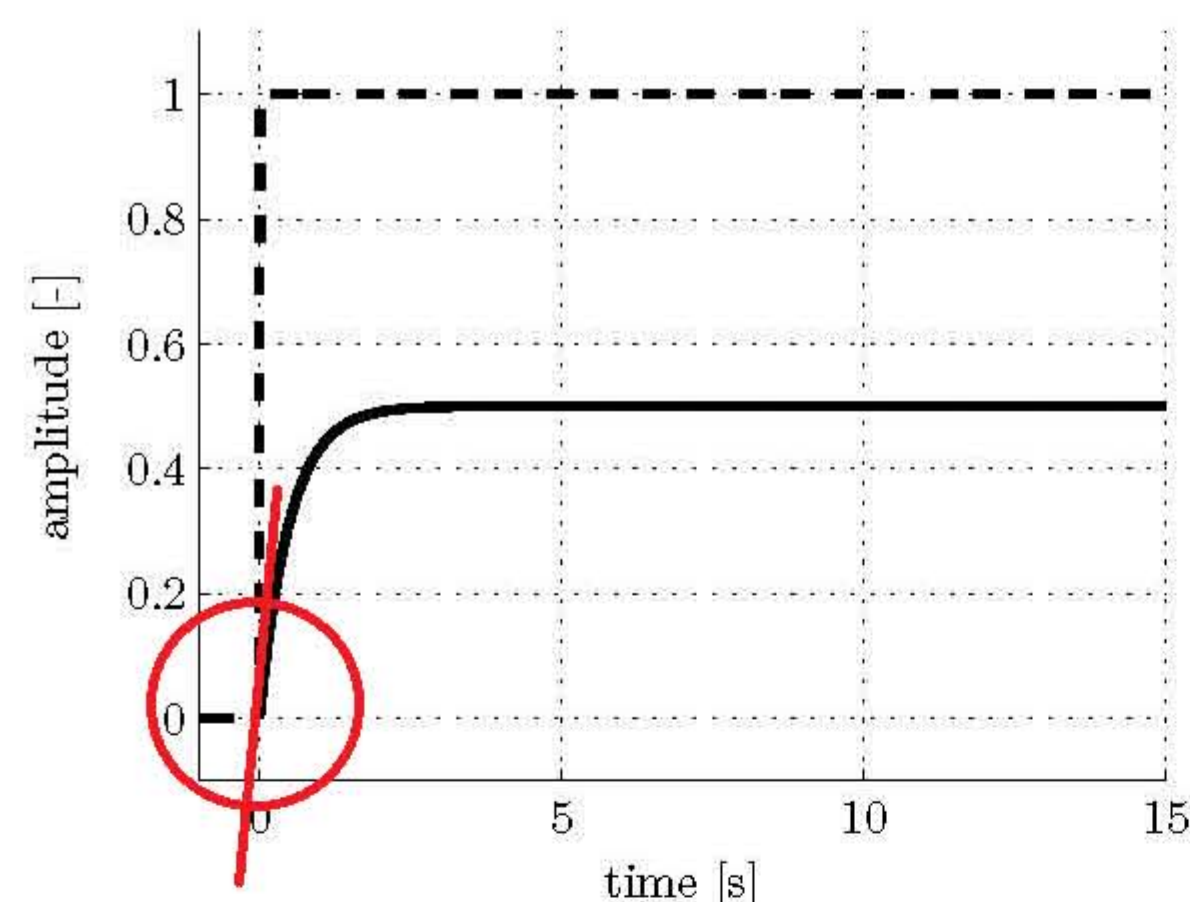


Totzeit  $\exp\{-s \cdot T\}$

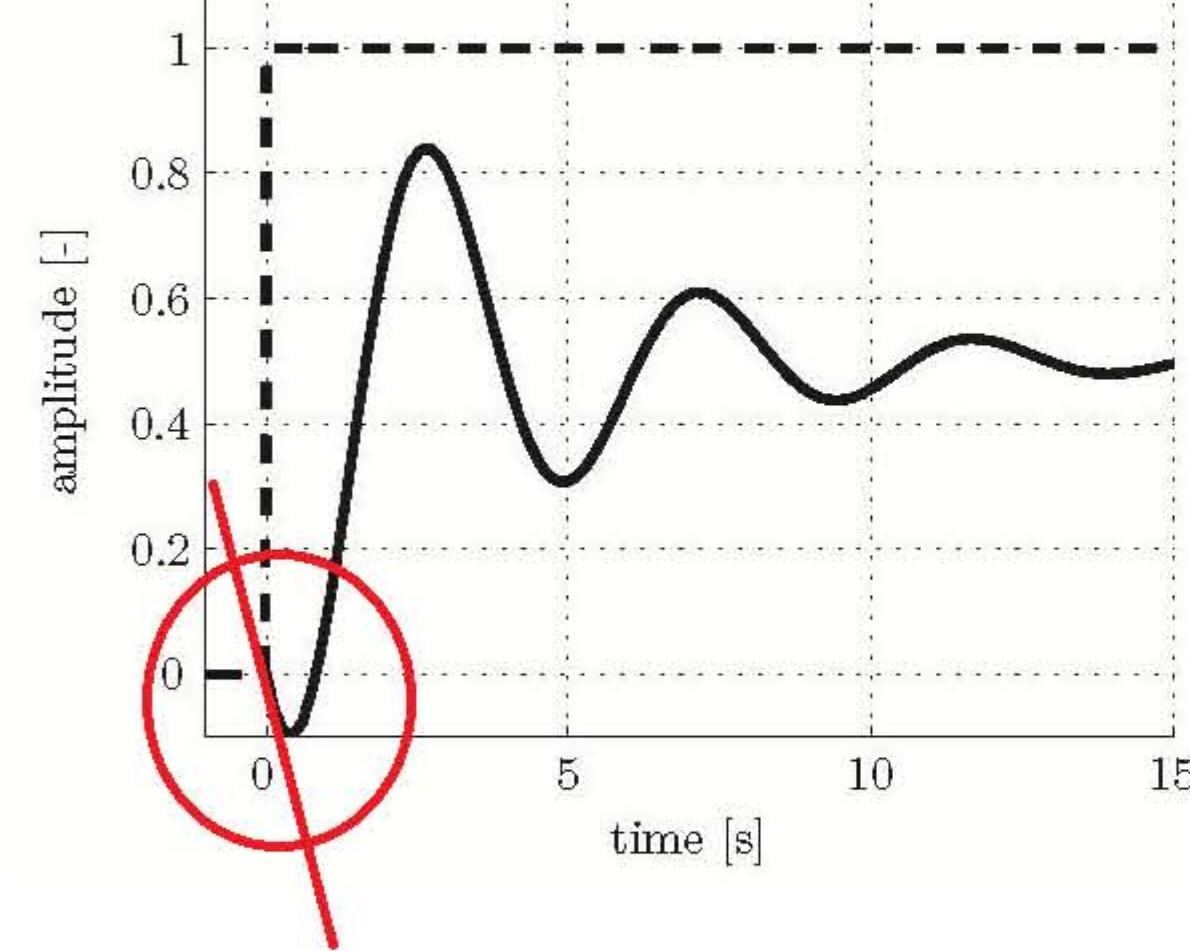
Anfangssteigung:



relativer Grad  $r \geq 2$

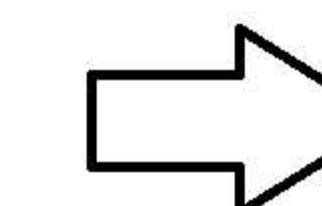
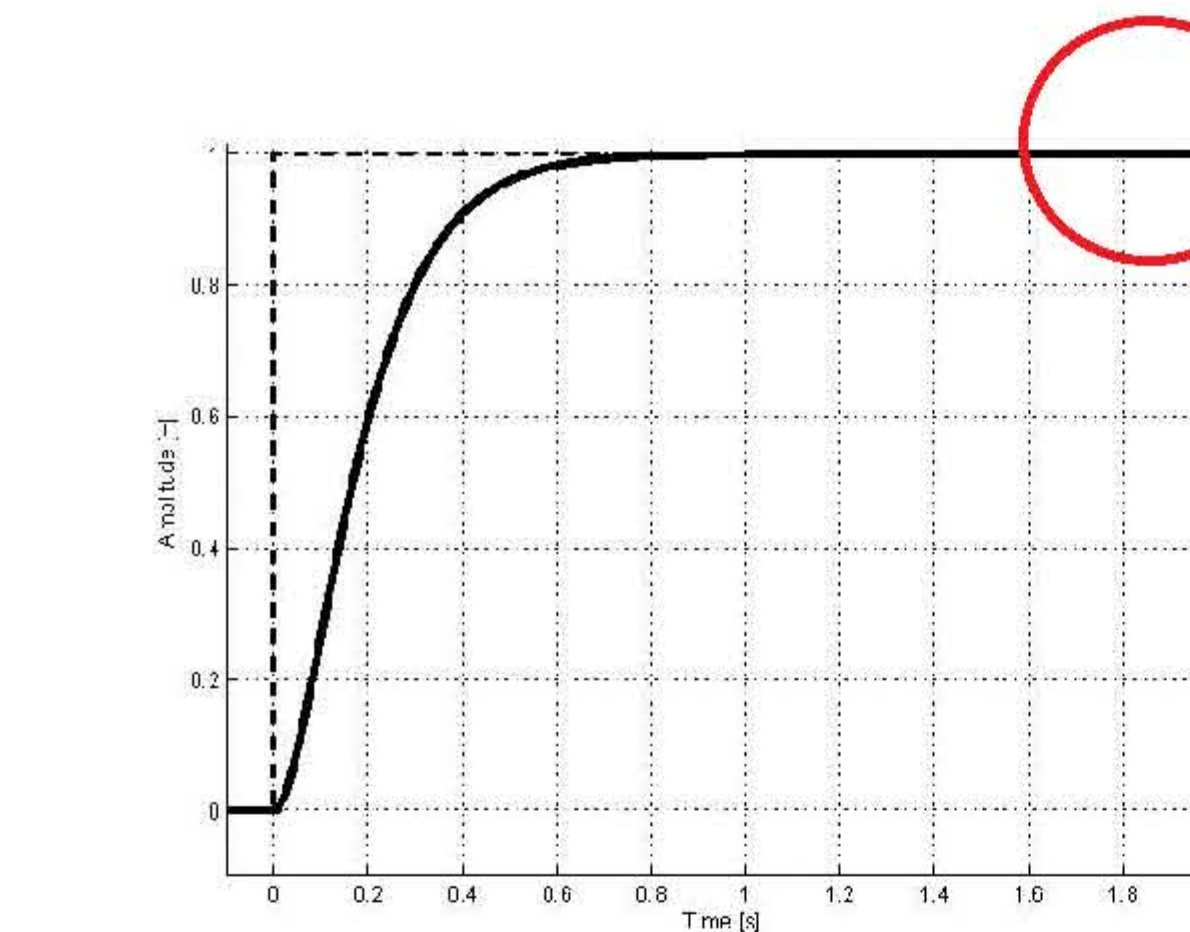


relativer Grad  $r=1$

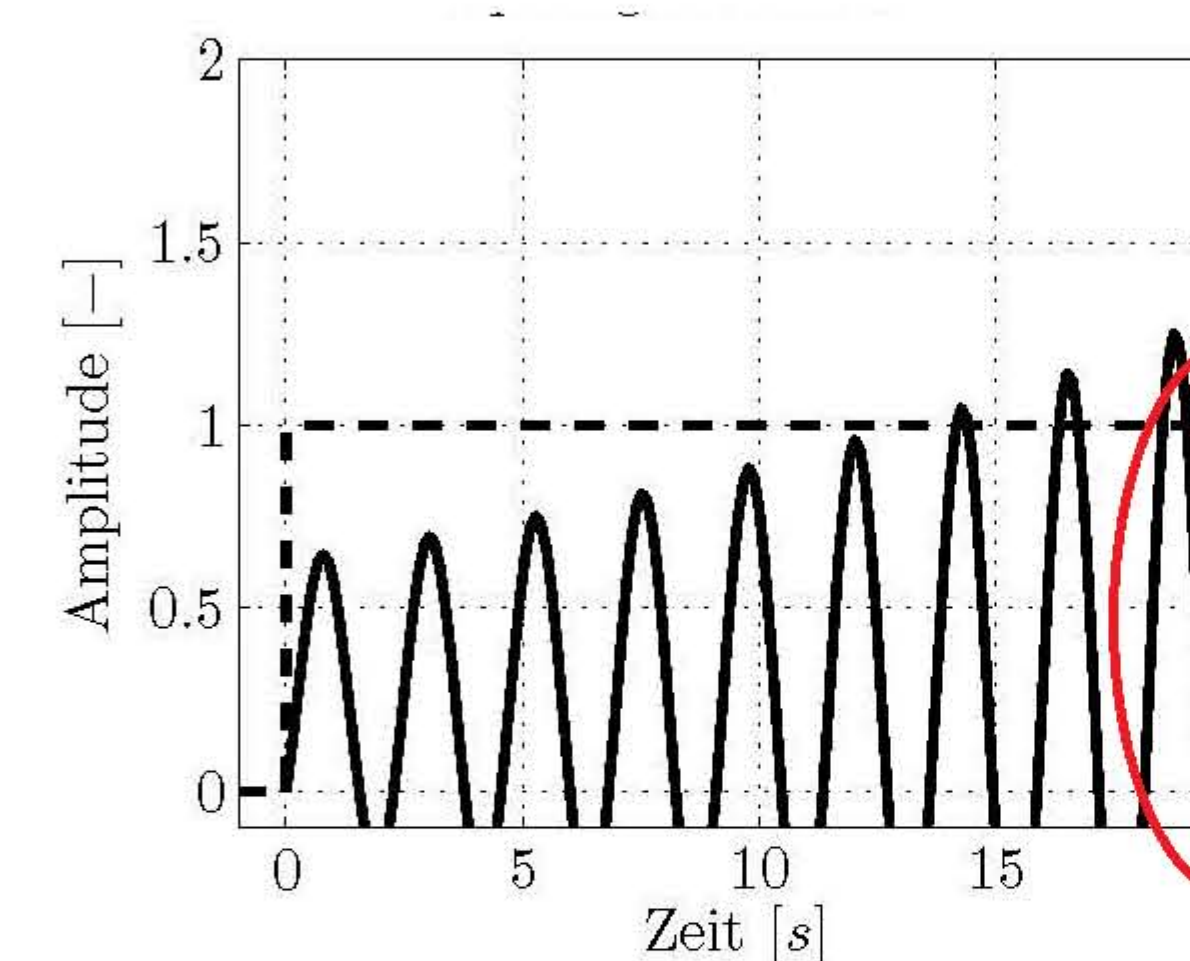


Nichtminimalphasige Nullstelle ,  $(1/t \cdot s-1)$

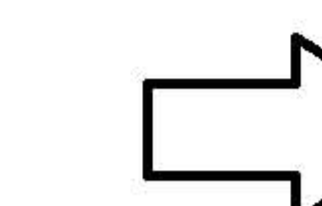
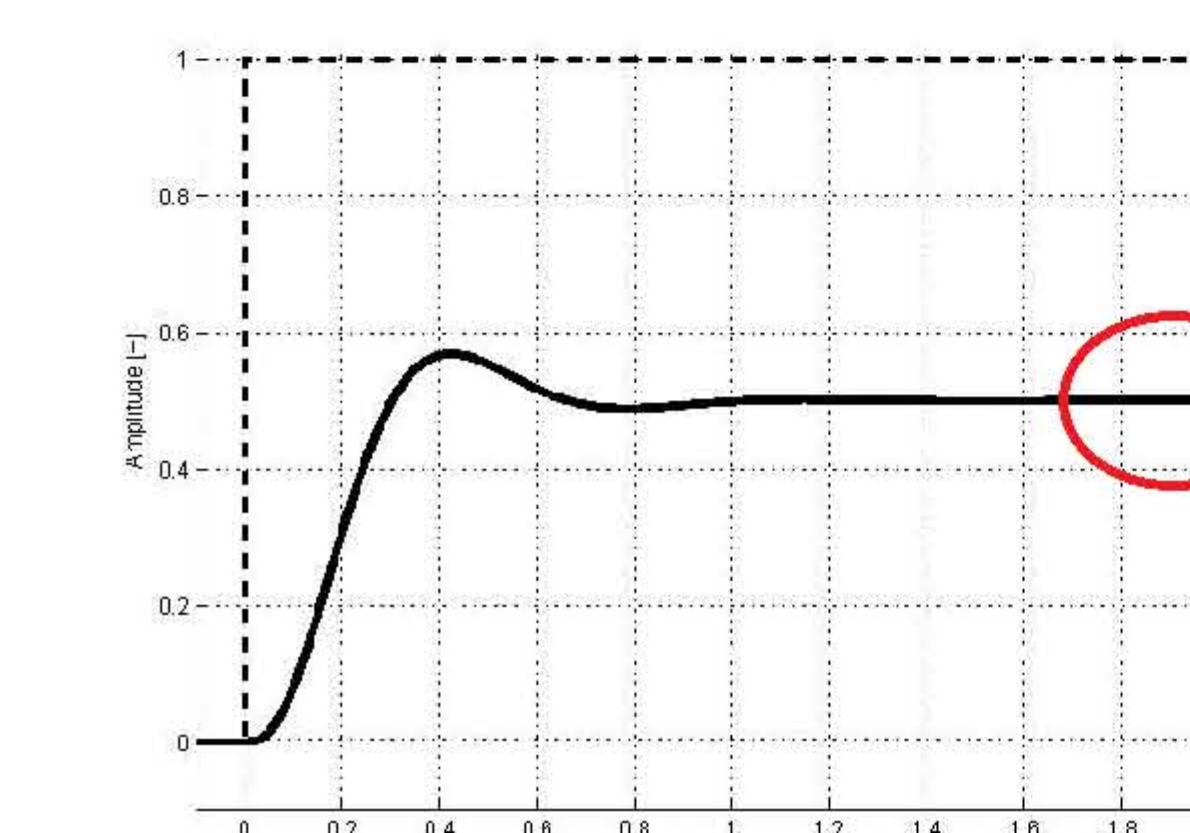
Endwert:



es gibt mind. 1 Integrator ,  $1/(t \cdot s)$



instabiler Pol ,  $\frac{1}{(1/t \cdot s-1)}$



Endwerttheorem benutzen um den statischen Fehler zu berechnen:

$E_{stat}=S(0)$