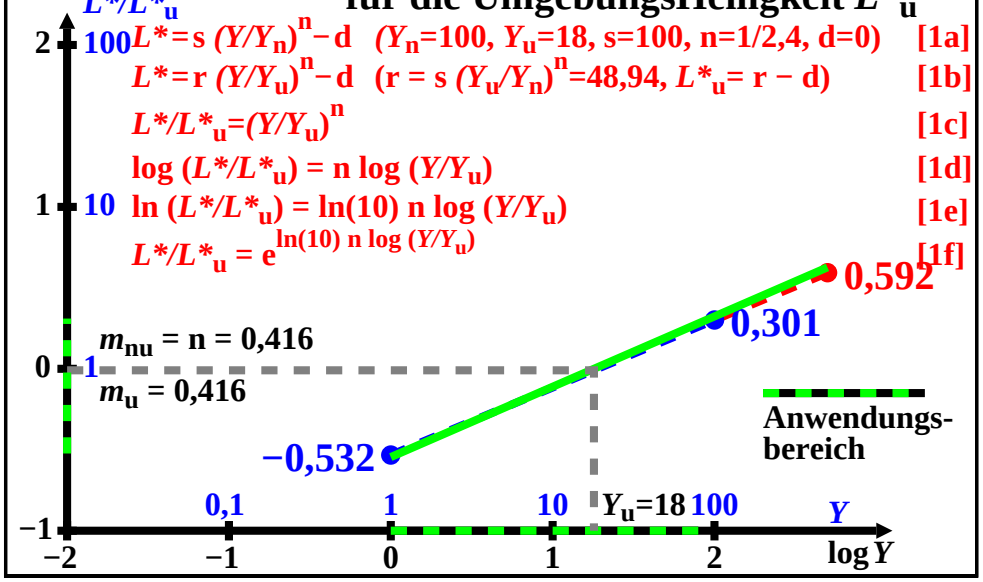
log (L^*/L^*_u) — IECsRGB-Helligkeit L^* normiert für die UmgebungsHelligkeit L^*_u



$L^*=s\,(Y/Y_n)^n-d$ (Y_n=100, Y_u=18, s=100, n=1/2,4, d=0) [1a]

$L^*=r\,(Y/Y_u)^n-d$ ($r=s\,(Y_u/Y_n)^n$=48,94, $L^*_u=r-d$) [1b]

$L^*/L^*_u=(Y/Y_u)^n$ [1c]

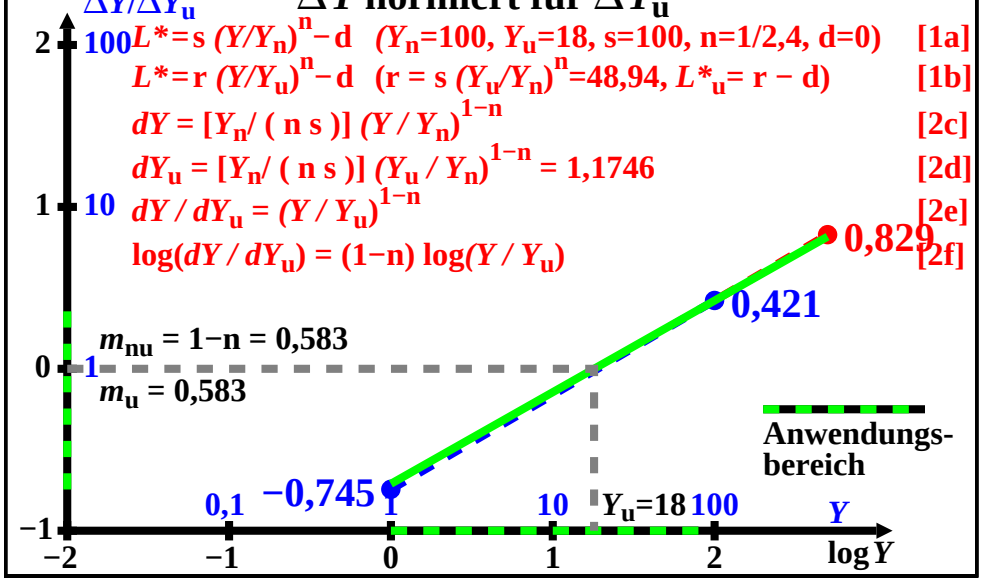
$\log(L^*/L^*_u)=n\log(Y/Y_u)$ [1d]

$\ln(L^*/L^*_u)=\ln(10)\,n\log(Y/Y_u)$ [1e]

$L^*/L^*_u=e^{\ln(10)\,n\log(Y/Y_u)}$ [1f]

hgt30−5a

log ($\Delta Y/\Delta Y_u$) — IECsRGB-Normfarbwertdifferenz ΔY normiert für ΔY_u



$L^*=s\,(Y/Y_n)^n-d$ (Y_n=100, Y_u=18, s=100, n=1/2,4, d=0) [1a]

$L^*=r\,(Y/Y_u)^n-d$ ($r=s\,(Y_u/Y_n)^n$=48,94, $L^*_u=r-d$) [1b]

$dY=[Y_n/(n\,s)]\,(Y/Y_n)^{1-n}$ [2c]

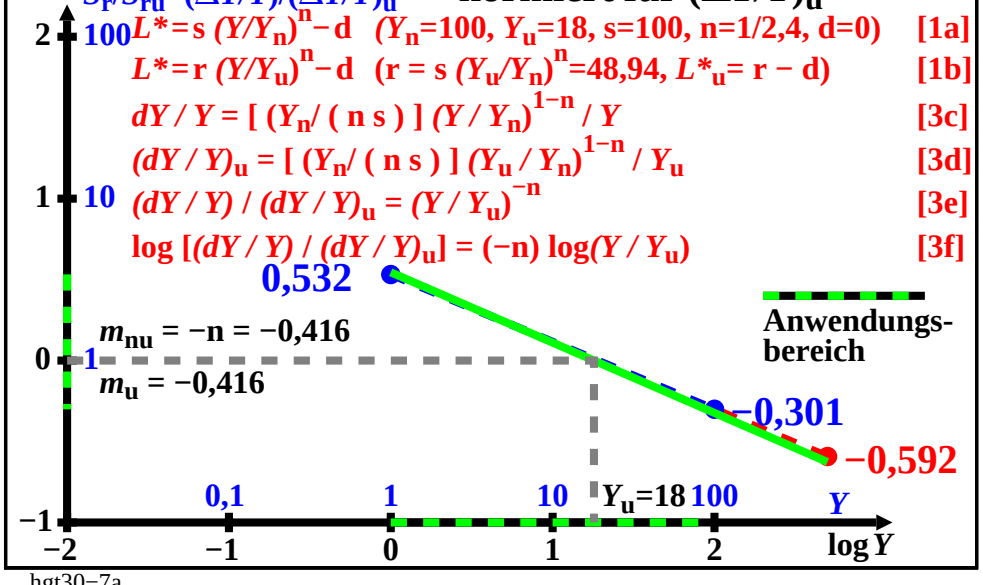
$dY_u=[Y_n/(n\,s)]\,(Y_u/Y_n)^{1-n}=1{,}1746$ [2d]

$dY/dY_u=(Y/Y_u)^{1-n}$ [2e]

$\log(dY/dY_u)=(1-n)\log(Y/Y_u)$ [2f]

hgt30−6a

log [$(\Delta Y/Y)/(\Delta Y/Y)_u$] — IECsRGB-$Y$-Empfindlichkeit normiert für $(\Delta Y/Y)_u$



$L^*=s\,(Y/Y_n)^n-d$ (Y_n=100, Y_u=18, s=100, n=1/2,4, d=0) [1a]

$L^*=r\,(Y/Y_u)^n-d$ ($r=s\,(Y_u/Y_n)^n$=48,94, $L^*_u=r-d$) [1b]

$dY/Y=[(Y_n/(n\,s)]\,(Y/Y_n)^{1-n}/Y$ [3c]

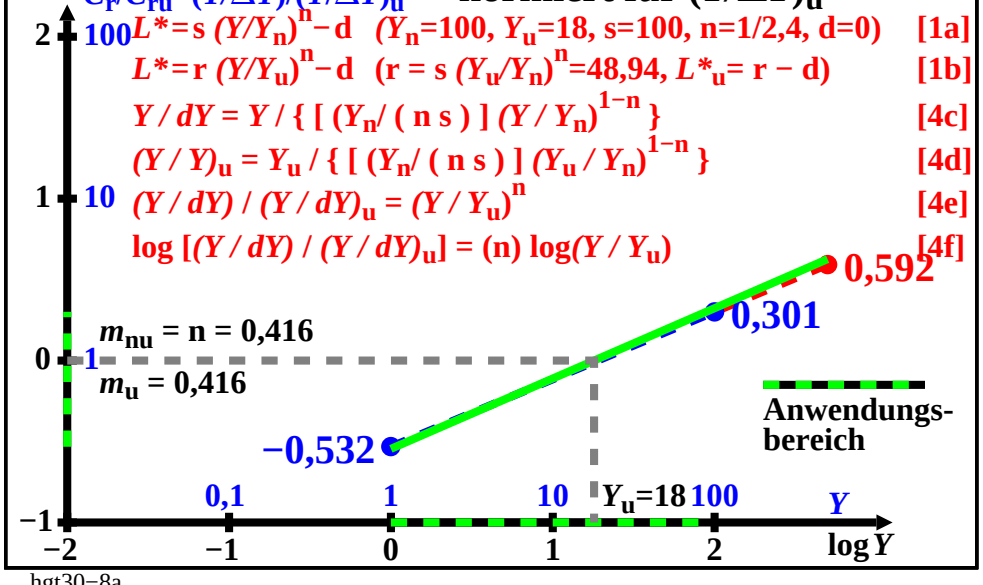
$(dY/Y)_u=[(Y_n/(n\,s)]\,(Y_u/Y_n)^{1-n}/Y_u$ [3d]

$(dY/Y)/(dY/Y)_u=(Y/Y_u)^{-n}$ [3e]

$\log[(dY/Y)/(dY/Y)_u]=(-n)\log(Y/Y_u)$ [3f]

hgt30−7a

log[$(Y/\Delta Y)/(Y/\Delta Y)_u$)] — IECsRGB-$Y$-Kontrast normiert für $(Y/\Delta Y)_u$



$L^*=s\,(Y/Y_n)^n-d$ (Y_n=100, Y_u=18, s=100, n=1/2,4, d=0) [1a]

$L^*=r\,(Y/Y_u)^n-d$ ($r=s\,(Y_u/Y_n)^n$=48,94, $L^*_u=r-d$) [1b]

$Y/dY=Y/\{[(Y_n/(n\,s)]\,(Y/Y_n)^{1-n}\}$ [4c]

$(Y/Y)_u=Y_u/\{[(Y_n/(n\,s)]\,(Y_u/Y_n)^{1-n}\}$ [4d]

$(Y/dY)/(Y/dY)_u=(Y/Y_u)^n$ [4e]

$\log[(Y/dY)/(Y/dY)_u]=(n)\log(Y/Y_u)$ [4f]

hgt30−8a

hgt30−7n