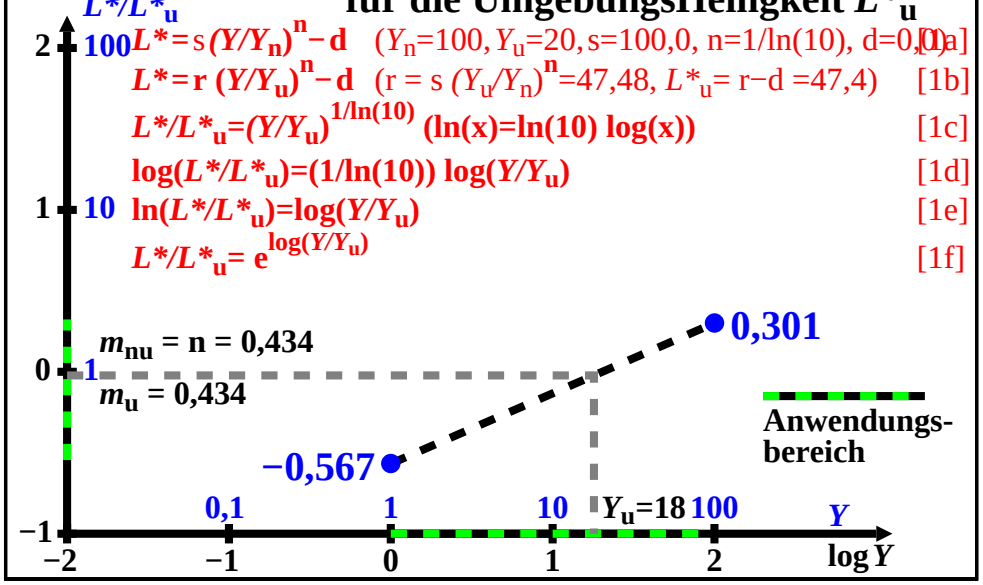
log (L^*/L^*_u) — TUBsRGB-Helligkeit L^* normiert für die UmgebungsHelligkeit L^*_u



$L^* = s\,(Y/Y_n)^n - d$ (Y_n=100, Y_u=20, s=100,0, n=1/ln(10), d=0,0) [1a]

$L^* = r\,(Y/Y_u)^n - d$ (r = s $(Y_u/Y_n)^n$=47,48, L^*_u= r−d =47,4) [1b]

$L^*/L^*_u = (Y/Y_u)^{1/\ln(10)}$ (ln(x)=ln(10) log(x)) [1c]

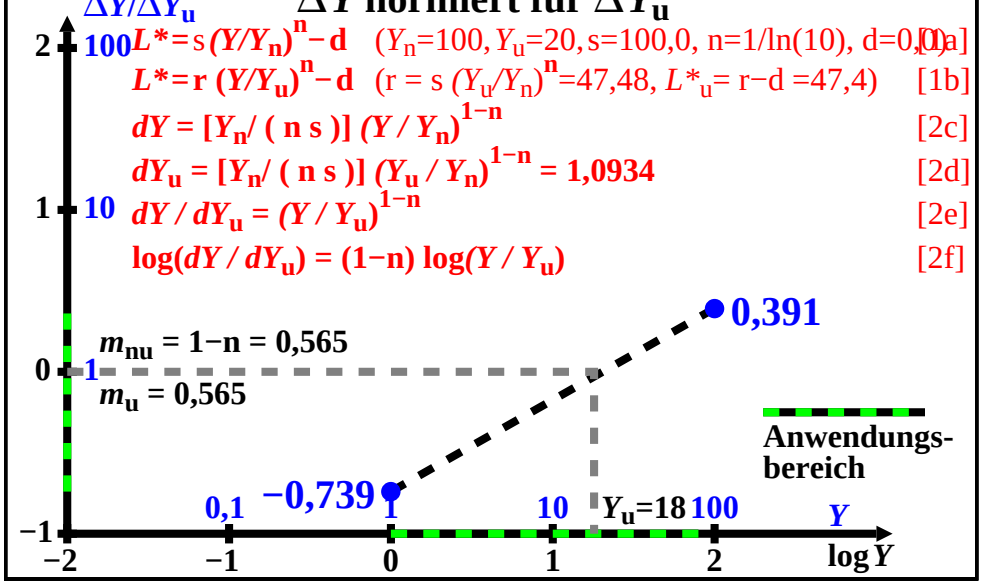
$\log(L^*/L^*_u) = (1/\ln(10))\,\log(Y/Y_u)$ [1d]

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

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

hgp90−5a

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



$L^* = s\,(Y/Y_n)^n - d$ (Y_n=100, Y_u=20, s=100,0, n=1/ln(10), d=0,0) [1a]

$L^* = r\,(Y/Y_u)^n - d$ (r = s $(Y_u/Y_n)^n$=47,48, L^*_u= r−d =47,4) [1b]

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

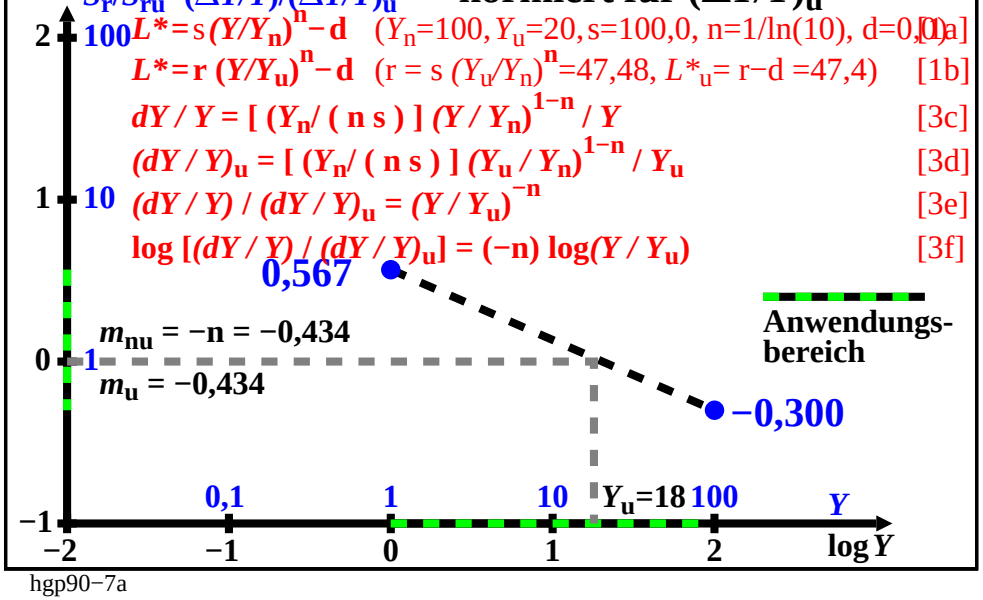
$dY_u = [Y_n/(n\,s)]\,(Y_u/Y_n)^{1-n} = 1{,}0934$ [2d]

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

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

hgp90−6a

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



$L^* = s\,(Y/Y_n)^n - d$ (Y_n=100, Y_u=20, s=100,0, n=1/ln(10), d=0,0) [1a]

$L^* = r\,(Y/Y_u)^n - d$ (r = s $(Y_u/Y_n)^n$=47,48, L^*_u= r−d =47,4) [1b]

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

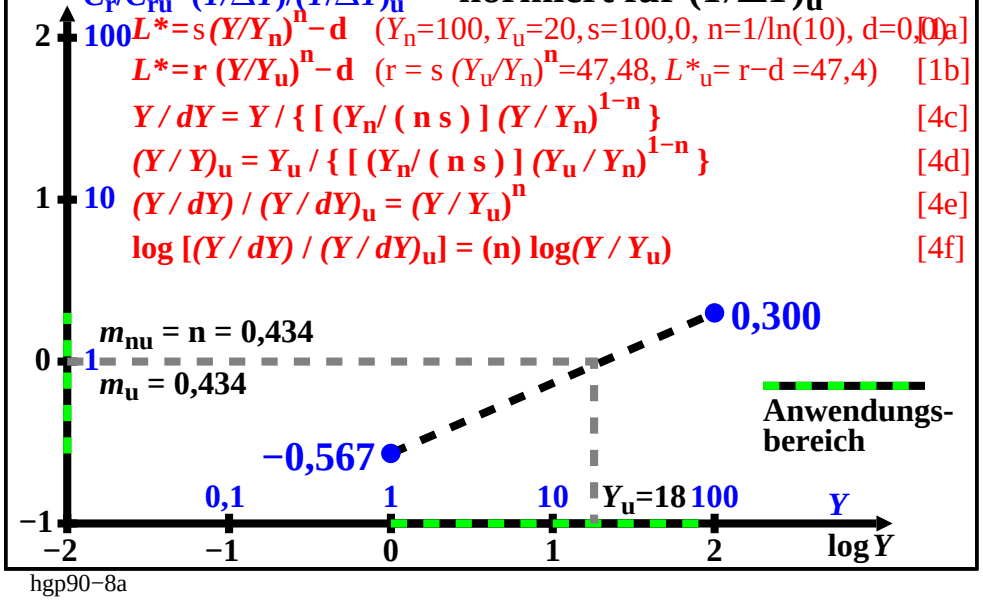
$(dY/Y)_u = [(Y_n/(n\,s))]\,(Y_u/Y_n)^{1-n}/Y_u$ [3d]

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

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

hgp90−7a

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



$L^* = s\,(Y/Y_n)^n - d$ (Y_n=100, Y_u=20, s=100,0, n=1/ln(10), d=0,0) [1a]

$L^* = r\,(Y/Y_u)^n - d$ (r = s $(Y_u/Y_n)^n$=47,48, L^*_u= r−d =47,4) [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]

hgp90−8a

hgp90−7n