Comparison of zone-determining special points of sigmoidal activation functions σ . Horizontal axis: $v_i = \Sigma_j w_{ij} x_j$. Vertical axis: numerical v_i values corresponding to special points of various σ 's.

Letting D2(v_i)= $-(y_i^* - \sigma(v_i))\frac{d}{dt}\sigma(v_i)$ which aligns with $\frac{d^2}{dv_i^2}\sigma(v_i)$ for some σ , D4= $\frac{d^2}{dv_i^2}$ (D2), subset v_i >0, and case y_i^* =0:

 α : max(|D4|). β : max(|D2|). γ : D4=0 for $v_i > \beta$. δ : local max(|D4|) for $v_i > \gamma$. Please see commentary figures.txt for detailed information.

