LINEAR SMOOTHERS FOR CREDIT SCORING

A BASIS OF LINEAR SMOOTHERS

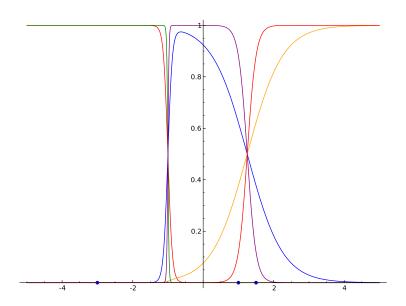


FIGURE 1. Linear smoothing basis functions on three points, bandwidth of $\frac{1}{2}.$

f=lfunctions(1/2)[1].simplify()

This is the function
$$\frac{\sqrt{2}e^{\left(-2\,(x-1)^2\right)}}{\left(\frac{\sqrt{2}e^{\left(-2\,(x-1)^2\right)}}{\sqrt{\pi}} + \frac{\sqrt{2}e^{\left(-2\,(x+3)^2\right)}}{\sqrt{\pi}} + \frac{\sqrt{2}e^{\left(-\frac{1}{2}\,(2\,x-3.0)^2\right)}}{\sqrt{\pi}}\right)\sqrt{\pi}}.$$