

1 Example FoxH-Macdonald_function_2_9_35.wls

File content

Fox H-function

$$H_{1,2}^{2,0} \left(\cdot \left| \begin{array}{c} \left(1 - \frac{\sigma+1}{\beta}, \frac{1}{\beta} \right) \\ (0, 1), \left(-\frac{\sigma}{\beta} - \gamma, \frac{1}{\beta} \right) \end{array} \right. \right)$$

$$H_{1,2}^{2,0} \left(\cdot \left| \frac{\left(1 - \frac{\sigma+1}{\beta}, \frac{1}{\beta} \right)}{(0, 1), \left(-\frac{\sigma}{\beta} - \gamma, \frac{1}{\beta} \right)} \right. \right)$$

Summary

$$\begin{aligned} a^* &= 1 \\ \Delta &= 1 \\ \delta &= \text{Indeterminate} \\ \mu &= \frac{1}{\beta} - \gamma - \frac{3}{2} \\ a_1^* &= 1 \\ a_2^* &= 0 \\ \xi &= \frac{1}{\beta} - \gamma - 1 \\ c^* &= \frac{1}{2} \end{aligned}$$

Poles 1. First eight poles from upper front list

$$a_{i,k} = \{\}^T$$

2. First eight poles from lower front list

$$b_{j,\ell} = \begin{pmatrix} 0 & \beta\gamma + \sigma \\ -1 & \beta(\gamma - 1) + \sigma \\ -2 & \beta(\gamma - 2) + \sigma \\ -3 & \beta(\gamma - 3) + \sigma \\ -4 & \beta(\gamma - 4) + \sigma \\ -5 & \beta(\gamma - 5) + \sigma \\ -6 & \beta(\gamma - 6) + \sigma \\ -7 & \beta(\gamma - 7) + \sigma \end{pmatrix}^T$$