

# 1 Example FoxH-Macdonald\_function\_2\_9\_33.wls

File content

Fox H-function

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

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

Summary

$$a^* = 1$$

$$\Delta = 1$$

$$\delta = \text{Indeterminate}$$

$$\mu = -\gamma + \gamma N + \frac{1}{N} - \frac{3}{2}$$

$$a_1^* = 1$$

$$a_2^* = 0$$

$$\xi = -\gamma + \gamma N + \frac{1}{N} - 1$$

$$c^* = \frac{1}{2}$$

Poles 1. First eight poles from upper front list

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

2. First eight poles from lower front list

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