

DLN 2.4.6 Correct a third time:

5%

Cont

$$\vec{y}^4 = \frac{1}{3} \frac{9}{24} \begin{pmatrix} 1.764871 \\ .972010 \end{pmatrix} + \begin{pmatrix} 1.474068 \\ 1.643357 \end{pmatrix} = \begin{pmatrix} 1.694677 \\ 1.764858 \end{pmatrix}$$

3rd corrected result

Evaluate again

$$\vec{F}^4 = \begin{pmatrix} y^4 \\ (8/3 - y^4) \end{pmatrix} = \begin{pmatrix} 1.764858 \\ .971990 \end{pmatrix}$$

Correct a fourth time:

$$\vec{y}^4 = \frac{1}{3} \frac{9}{24} \begin{pmatrix} 1.764858 \\ .971990 \end{pmatrix} + \begin{pmatrix} 1.474068 \\ 1.643357 \end{pmatrix} = \begin{pmatrix} 1.694675 \\ 1.764856 \end{pmatrix}$$

4th corrected result

The corrector iterations seem to have converged. Do it 1 more time to check: