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Starting SOR with zero vorticity

Consider a grid with n and m gridpoints in the ξ and θ directions, respectively. Suppose the SOR iteration begins with the flow fields $\psi = \omega = 0$ everywhere except on the free-stream boundary, where

$$\psi_{n,j} = e^{\xi_n} \sin \theta_j.$$

How many SOR iterations does it take for ω to obtain its first nonzero value?

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