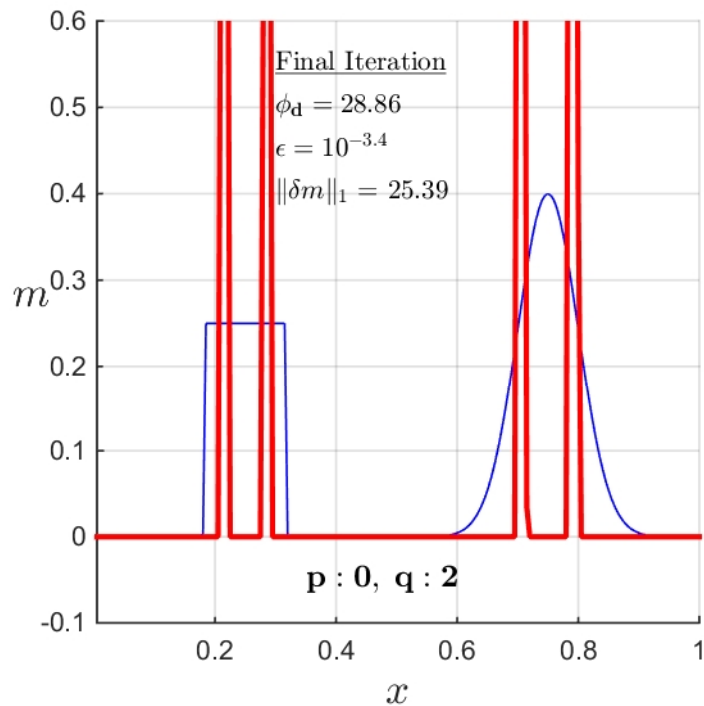
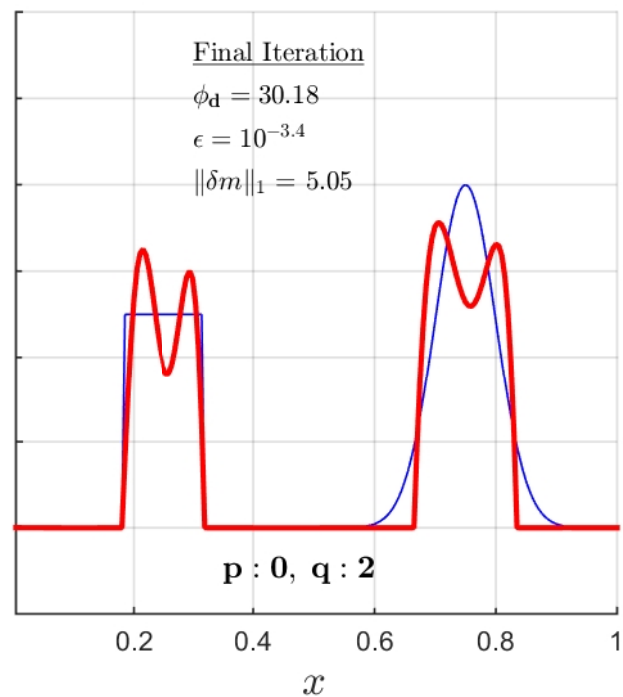


$$\phi_m = \gamma^{(k)} \left[ \| \mathbf{W}_s \mathbf{R}_s \mathbf{m} \|_2^2 + \| \mathbf{W}_x \mathbf{R}_x \mathbf{G}_x \mathbf{m} \|_2^2 \right]$$



(a)

$$\phi_m = \gamma^{(k)} \left[ \| \mathbf{W}_s \hat{\mathbf{R}}_s \mathbf{m} \|_2^2 + \| \mathbf{W}_x \hat{\mathbf{R}}_x \mathbf{G}_x \mathbf{m} \|_2^2 \right]$$



(b)

