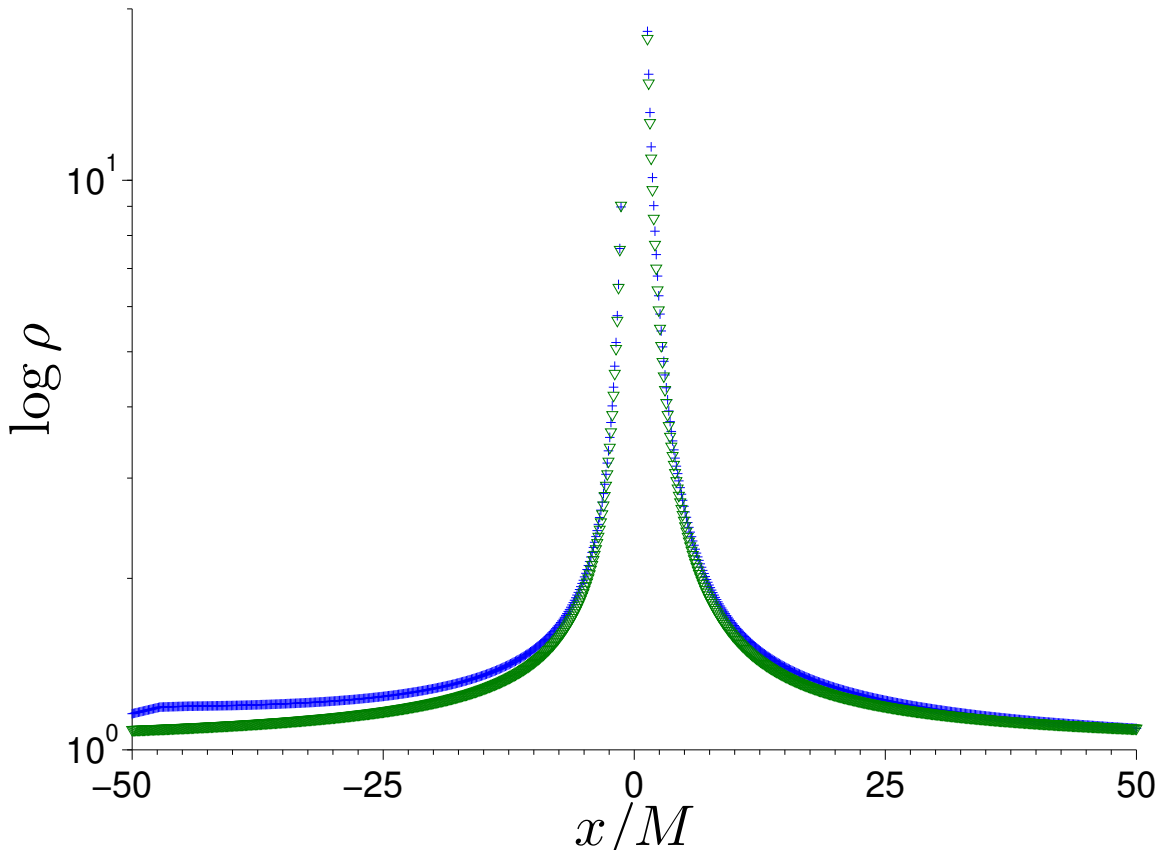
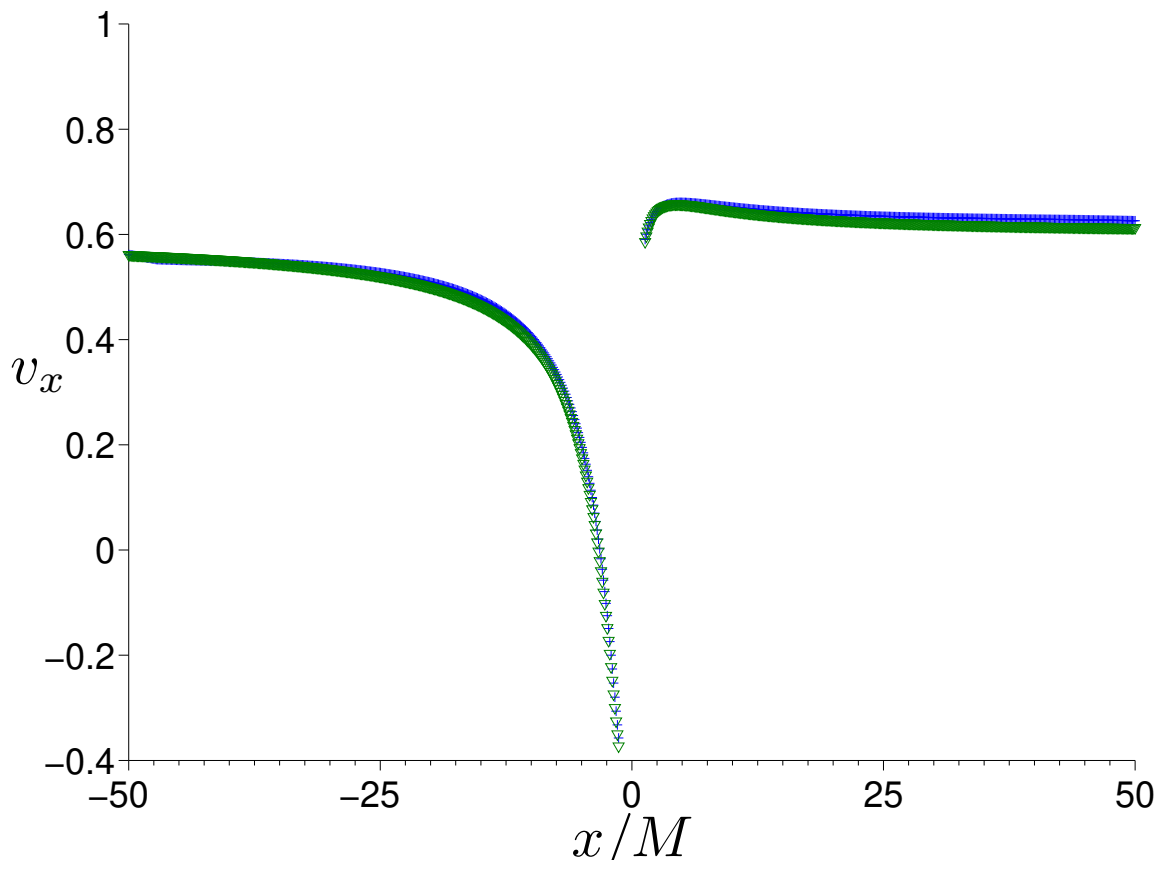


(a) Comparison of the numerical and exact solutions for $\log \rho$.



(b) Comparison of the numerical and exact solutions for v_x.