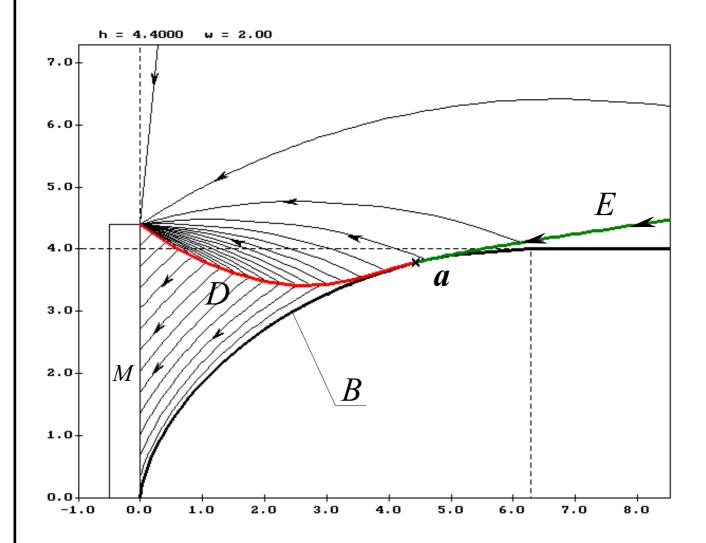
Solution for h = 4.4, w = 2



The singular line and the barrier have common tangent at the point ${\it a}$