

Ann. Scuola Norm. Sup. Pisa Cl. Sci. (5)
Vol. IX (2010), 111-132

A fully nonlinear problem with free boundary in the plane

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Abstract. We prove that bounded solutions to an overdetermined fully nonlinear free boundary problem in the plane are one dimensional. Our proof relies on maximum principle techniques and convexity arguments.

Mathematics Subject Classification (2010): 35J60 (primary); 35N25, 35B06 (secondary) .